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# UTILITY PATENT APPLICATION TRANSMITTAL

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First Named Inventor or Application Identifier	Glenn Goggins and William Marcial
Title	SYSTEMS AND METHODS FOR CREDIT LINE MONITORING
Express Mail Label No.	EL048588268US

**APPLICATION ELEMENTS**  
See MPEP chapter 600 concerning utility patent application contents.

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- Eighteen (18) pages of specification; nine (9) pages of claims; one (1) page of abstract
- Declaration and Power of Attorney (2 pgs)(submitted for inventor identification purposes only)
- Thirty-Two (32) sheets of drawings
- Patent Application Transmittal (1 pg)
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## SYSTEMS AND METHODS FOR CREDIT LINE MONITORING

### BACKGROUND OF THE INVENTION

This invention relates generally to credit line monitoring and, more specifically, to credit line tracking and borrowing methods and systems.

5 A treasury operation of a multi-billion dollar corporation manages money for many different divisions within the corporation as well as for affiliates and other related entities. In connection with significant transactions and other operational needs, the treasury operation also secures and manages credit lines with commercial banks. At a given time, the corporation may have numerous credit lines with domestic as well international banks. Each credit line, if drawn by the company, may have its own variables such as interest rates, period, currency and so on. Additionally,  
10 for each credit line, the treasury operation maintains information regarding the borrowings, payments, conversion from or to foreign currency, and other relevant information.

15 Managing the complexities of these numerous credit lines is a challenging task. For example, simply managing payments for maintaining credit lines at numerous banks in many different jurisdictions and varying currencies in itself is a substantial undertaking. Ensuring that financial institutions from which such credit lines are secured are viable, by maintaining relevant credit rating information, also requires significant resources.

### BRIEF SUMMARY OF THE INVENTION

20 The present invention facilitates efficient credit line monitoring which includes tracking borrowings as well as posting journal entries automatically for financial reporting.

25 In one embodiment, the present invention is a method for tracking bank credit lines and borrowing against credit lines using a Credit Line System (CLS) coupled to a centralized database. The method involves manually tracking credit ratings of a bank, requesting the bank to establish a line of credit, accessing a centralized database to obtain and maintain information regarding the line of credit, transmitting domestic and international wire information for cash movement to the

bank, and finally posting journal entries to a general ledger for financial monitoring, reporting and auditing purposes.

In another aspect, the present invention is a system for computer-based credit line monitoring. In an exemplary embodiment, the system includes at least one server system, a client system configured with a browser, a centralized database coupled to the server system to implement, manage and monitor bank credit lines drawn and undrawn and the credit ratings including credit ratings, currencies, interest rates, borrowings against credit lines, cash payments and finally posting the related journal entries.

#### BRIEF DESCRIPTION OF THE DRAWINGS

Figure 1 is a simplified block diagram of a Credit Line System (CLS) for tracking bank credit lines and borrowings against credit lines;

Figure 2 is an expanded version block diagram of an exemplary embodiment of server architecture of CLS;

Figure 3 shows a configuration of a database within database server 16 of server system shown in Figure 1;

Figure 4 is an exemplary embodiment of various modules as utilized in implementing CLS;

Figure 5 is an exemplary embodiment of activity process steps as implemented by CLS;

Figure 6 is an exemplary embodiment of some of the functionality of Credit Line Module;

Figure 7 is a continuation of the functionality of Credit Line Module;

Figure 8 is an exemplary embodiment of the functionality of Borrowing Module;

Figure 9 is an exemplary embodiment of the functionality of Journal Entry Module;

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Figure 26 is an exemplary embodiment of capacity available report by bank;

Figure 27 is a borrowings repayment report;

Figure 28 is an exemplary embodiment of a borrowings interest paid report by currency;

Figure 29 is an exemplary embodiment of a borrowings domestic ACH report;

Figure 30 is an exemplary embodiment of a borrowings domestic wire report;

Figure 31 is an exemplary embodiment of a borrowings interest accruals report in local currency; and

Figure 32 is an exemplary embodiment of a composite rate repot.

#### DETAILED DESCRIPTION OF THE INVENTION

The present invention, in one aspect, is a computer-based method for credit line assessment.

Exemplary embodiments of systems and processes that facilitate integrated network-based electronic reporting and workflow process management related to credit line assessment are described below in detail. The systems and processes facilitate, for example, electronic submission of information using a client system, automated extraction of information, and windows-based assessment reporting.

The systems and processes are not limited to the specific embodiments described herein. In addition, components of each system and each process can be practiced independent and separate from other components and processes described herein. Each component and process also can be used in combination with other components and processes.

The application resides on an IIS Server with a SQL Server 7.0 database. In an exemplary embodiment, the application is web enabled and being run on a business entity's intranet. In yet another embodiment, the application is fully

accessed by individuals having an authorized access outside the firewall of the business entity through the Internet. In a third exemplary embodiment, the application is being run in a windows NT environment. The application is flexible and designed to run in a various different environments without compromising any major functionality.

Figure 1 is a simplified block diagram of a Credit Line System (CLS) for tracking bank credit lines and borrowings. System 10 includes a server system 12 and a plurality of client systems 14 connected to server system 12. In one embodiment, client systems 14 are computers including a web browser, and server system 12 is accessible to client systems 14 via the Internet. Client systems 14 are interconnected to the Internet through many interfaces including a network, such as a local area network (LAN) or a wide area network (WAN), dial-in-connections, cable modems and special high-speed ISDN lines. In another embodiment, client systems 14 could be any device capable of interconnecting to the Internet including a web-based telephone or other web-based connectable equipment. A database server 16 is connected to a centralized database 20 containing product related information on a variety of products, as described below in greater detail, is stored on server system 12 and can be accessed by potential users at one of client systems 14 by logging onto server system 12 through one of client systems 14.

In one embodiment, server system 12 is coupled to computers 14 via a WAN or LAN. A user may dial or directly log on to an intranet or the Internet to gain access. Each computer 14 includes an interface for communicating with server system 12. The interface allows a user to input data and to receive data relating to the request. A computer-based tool for credit line assessment, as described below in more detail, is stored in server system 12 and can be accessed by a user at server 12 or any one of computers 14.

Server system 12 is configured to receive a request to establish or expand an applicant's line of credit, to access the applicant's current credit exposure and to calculate the applicant's eligibility for establishing or expanding the line of credit. Current credit exposure includes any information relevant to an applicant's credit history, including, but not limited to, credit line and borrowing information. Server system 12 is further configured for reporting the applicant's eligibility for establishing or expanding the line of credit. The interface allows the user or applicant to input data relating to the request and to receive eligibility output. In one

embodiment, the user or applicant is a bank, company, organization or an individual applicant.

Figure 2 is an expanded version block diagram of an exemplary embodiment of server architecture of a Credit Line System (CLS) 22. Components in system 22 identical to components of system 10 (shown in Figure 1) are identified in Figure 2 using the same reference numerals as used in Figure 1. System 22 includes a server system 12 and client system 14. Server system 12 includes a database server 16 and further includes an application server 24, a web server 26, a fax server 28, a directory server 30, and a mail server 32. A disk storage unit 34 is coupled to database server 16 and directory server 30. Servers 16, 24, 26, 28, 30, and 32 are coupled in a local area network (LAN) 36. In addition, a system administrator's workstation 38, a user or credit analyst's workstation 40, and a supervising officer's workstation 42 are coupled to LAN 36. Alternatively, workstations 38, 40, and 42 are coupled to LAN 36 via an Internet link or are connected through intranet.

Each workstation, 38, 40, and 42 is a personal computer including a web browser. Although the functions performed at the workstations typically are illustrated as being performed at respective workstations 38, 40, and 42, such functions can be performed at one of many personal computers coupled to LAN 36. Work stations 38, 40, and 42 are illustrated as being associated with separate functions only to facilitate an understanding of the different types of functions that can be performed by individuals having access to LAN 36.

In another embodiment, server system 12 is configured to be communicatively coupled to various banks 44 and to third parties, e.g., internal or external auditors 46 via an ISP Internet connection 48. The communication in the exemplary embodiment is illustrated as being performed via the Internet, however, any other wide area network (WAN) 50 type communication can be utilized in other embodiments, i.e., the systems and processes are not limited to being practiced via the Internet. In addition, and rather than a WAN, a local area network could be used in place of the WAN.

In the exemplary embodiment, each outside bank or a business entity 44 has a workstation 54. One of the client systems includes a senior manager's workstation 56 located at a remote location or located overseas. Work stations 54 and 56 are personal computers including a web browser. Also, work stations 54 and 56 are configured to communicate with server system 12. Furthermore, fax server 28



communicates with outside banks 44 and any of the remotely located client systems including a client system 56 via a telephone link. Fax server 28 is configured to communicate with other client systems 38, 40, and 42 as well.

Figure 3 shows a configuration of database 20 within database server 16 of server system 12 shown in Figure 1. Database 20 is coupled to several separate components within server system 12, which perform specific tasks.

Server system 12 includes a collection component 64 for collecting information from users into centralized database 20, a tracking component 66 for tracking information, a displaying component 68 to display information, a receiving component 70 to receive a specific query from client system 14, and an accessing component 72 to access centralized database 20. Receiving component 70 is programmed for receiving a specific query from one of a plurality of users. Server system 12 further includes a processing component 76 for searching and processing received queries against data storage device 34 containing a variety of information collected by collection component 64. An information fulfillment component 78, located in server system 12, downloads the requested information to the plurality of users in the order in which the requests were received by receiving component 70. Information fulfillment component 78 downloads the information after the information is retrieved from data storage device 34 by a retrieving component 80. Retrieving component 80 retrieves, downloads and sends information to client system 14 based on a query received from client system 14 regarding various alternatives.

Retrieving component 80 further includes a display component 84 configured to download information to be displayed on client system's graphical user interface and a printing component 88 configured to print information. Retrieving component 80 generates various reports requested by the user through client system 14 in a pre-determined format. System 10 is flexible to provide various alternative types of report and is not constrained to particular options set forth in any particular embodiment.

CLS 10 is a searchable database 20 built in SQL server, which is divided into three main sections that interconnect. The first section is a Bank Information Section 90. Every bank has a basic entry that lists the name of a bank, the contact person, location, areas of expertise, discount/other financial terms, business or location of the bank. The second section is a Credit Line Information Section 92. Credit lines obtained by the corporation are linked to the internal system

of each of the bank. Basic information is collected, such as a total credit line, when extended, what are the fees being paid for the credit line, interest rate on the credit line, and so on. CLS 10 generates different reports, such as total fees and related matters by business, location, practice area, etc. The third section of CLS, Borrowings/Repayment Information Section 96, includes information on Borrowings/Repayments. This section tracks information on repayment amount against the specific borrowing from each bank, date the payment was made, amount credited to interest as well as principal, if any and other related information. Bank Information Section 90, Credit Line Information 92 and Borrowings/Repayment Information Section 96 are all integrated together to provide comprehensive information. Updating information within one section also automatically updates the relevant information in other sections of the database to maintain integrity.

The architectures of system 10 as well as various components of system 10 are exemplary only. Other architectures are possible and can be utilized in connection with practicing the processes described below.

Figure 4 is an exemplary embodiment of various modules as utilized in implementing CLS 10. CLS 10 includes a Credit Line Module 150, a Borrowing Module 160 and a Journal Entry Module 170 of Credit Line System (CLS) 10. Credit Line Module 150, Borrowing Module 160 and Journal Entry Module 170 are integrated together to perform several comprehensive functions.

Figure 5 is an exemplary embodiment of activity process steps as implemented by CLS 10. The business entity, contacts a commercial bank by phone 174 either to establish a credit line or to change a credit line. The business entity may be a remote individual applicant, a company, or an organization. CLS 10 processes information 180 obtained manually from various commercial banks on an on-going basis and stores appropriate information in database 20. Database 20 has information about various banks' credit ratings as well as their financial condition. System 10 accesses 184 database 20 to obtain and maintain 190 information through Credit Line Module 150 (shown in Figure 4) about current credit line commitments, history, and amount available for borrowing from each institution. System 10 user manually requests borrowing against credit line from bank 200, receives 208 borrowing approval from commercial banks, and finally obtains / maintains 214 real time current borrowings and the history relating to each credit line through Borrowing Module 160 (shown in Figure 4). Commitment fees are paid 216 to each bank on a quarterly basis

for the credit line. System 10 transmits 220 domestic as well as international wire information for cash movement to ensure that each bank is paid on a periodic basis. Once the banks are paid, system 10 transmits borrowing journal entries 230 to the general ledger through Journal Entry Module 170 (shown in Figure 4).

## 5 I. CREDIT LINE MODULE 150

Credit Line Module 150 addresses credit application, approval and tracking process.

10 The applicant's credit exposure is accessed using a central database that automatically tracks the applicant's current credit exposure information. The central database includes information relevant to an applicant's credit exposure. In a specific embodiment, the central database includes current credit line commitments, credit history, amount of available credit for borrowing, repayment history and real-time current borrowing information. As used herein, track means to monitor and/or update by the user.

15 In an exemplary embodiment, system 10 (shown in Figure 1) generates credit line reports. Various credit line reports are generated, including, but not limited to, management reports, credit line accrual reports, accounting reports, cash management reports, payment reports and commitment fee wire files. The credit line report is detailed by bank, expiration, originator, credit line type or any other method of detailing. The credit line accrual report is detailed by pay type, bank name or any other detailing method. In a specific embodiment, system 10 submits at least one file to a bank wire system.

25 Credit Line Module 150 performs several functions, some of which are described briefly in Figure 6 and Figure 7 and explained hereunder. Figures 6 and 7 describe a function type 232, a function description 234, and function dependencies 236. Each of the function types 232 are displayed to the user in user friendly screens (not shown in Figures 6 and 7). Function descriptions 234 provide brief overview of the functionality. On the other hand, function dependencies 236 provides the user with information pertaining to various dependencies which must be addressed prior to accessing a specific function. The user accesses the functionality features after the user logs on to system 10 through a system displayed log-in 240 screen with a valid user identification and a valid password.

Various functionality features of Credit Line Module 150 are:

a. Maintain State / Country 250 features allows the user to add, update, delete and view valid state and country types.

b. Maintain Basis Type 254, Maintain Bank Rating 256, Maintain Credit Line Type 258, Maintain Payment Type 264, and Maintain Bank 270 allow the user to add, update, delete and view a valid functionality specific to each one of these functions.

c. Change Bank Rating History 284 permits the user to perform updates of bank rating for a specific bank.

d. Other functionality and features of Credit Line Module 150, as described briefly in Figures 6 and 7, include Maintain Bank Contact 290, Maintain Commitment Fee 294, Add Credit Line Contract 298, Amend Credit Line Contract 302, Cancel Credit Line Contract 308, Extend Credit Line Contract 312.

e. Other functionality and features of Credit Line Module 150, as further described in Figures 6 and 7, include Change Maturity Type 320, Merge Credit Line Contract 324, Update Notes 328, Generate Credit Line Detail Report by Bank 330, Generate Credit Line Detail Report by Expiration 334, Generate GECC/GE Credit Lines Ranking Report 340, Generate GECC Credit Lines Report 344, Generate GECS Credit Lines 350, Generate GECC Ratings Report 354, Generate Credit Line Accrual Report by Bank Name 360, Generate Credit Line Accrual Report by Pay Type 364, Generate Credit Line Payment Report 370, Generate Gateway ACH Report 374, Generate Gateway ACH File 380 which creates ACH fee payment file for submission to the bank wire system, Generate Gateway Wire 384 which lists federal wire fee payment information, and finally Generate Gateway Wire File 390 which creates wire fee payment file for submission to the bank wire system.

## II. BORROWING MODULE 160

In an exemplary embodiment, Borrowing Module 160 of system 10 generates various types of borrowing reports. Borrowing reports generated include management reports, accounting reports and cash management reports. In an alternative embodiment, the borrowing report is detailed by due date, expiration of a credit line, location, unused credit lines, value date, bank, repayment report, interest paid by currency, domestic borrowing, domestic wire report and interest report in

local currency. In a specific embodiment, system 10 inputs the reports to a bank wire system. In an alternative embodiment, system 10 (shown in Figure 1) also automatically transmits domestic and international wire for cash movements to a bank.

5 In yet another embodiment, system 10 (shown in Figure 1) generates composite rate report. Composite rate report display average rate information for each borrowing outstanding during a select period. In another exemplary embodiment, system 10 maintains reports and other records in a cross-reference file or a central database.

10 Borrowing Module 160 performs several functions, some of which are depicted in Figure 8 and briefly explained hereunder. The user accesses the functionality features after the user logs on to system 10 through a system displayed log-in screen with a valid user identification and a valid password.

15 The functionality features of Borrowing Module 160, as described briefly in Figure 8, include: Maintain Currency Type 400, Maintain Available Currency 404, Maintain Currency Exchange Rate 408, Maintain Borrowing Spread 412, Maintain Benchmark Description 416, Maintain Benchmark Rate 420, Maintain Fed Funds Rate 424, Add Borrowing 428, Delete Borrowing 432, Add Repayment 436, Generate Borrowing Detail Report by Due Date 440, Generate Borrowing Detail Report by Expiration 444, Generate Borrowing Detail Report by State / Country 448, Generate Borrowing Detail Report by Unused Credit Line 452, Generate Borrowing Detail Report by Value Date 456, Generate Capacity Available Report by Bank 460, Generate Borrowings Repayment Report 464, Generate Borrowings Interest Paid Report by Currency 468, Generate Borrowing Domestic ACH Report 472, Generate Borrowings Domestic Wire Report 476, Generate Borrowings Interest Accrual Report in Local Currency 480, and Generate Composite Rate Report 484. The capabilities of each of these functions as well as dependencies are briefly explained in Figure 8.

### III. JOURNAL ENTRY MODULE 170

30 Journal Entry Module 170 performs several functions, some of which are described briefly in Figure 9 and explained hereunder. Various functionality is accessed by the user after the user logs on to system 10 through a system displayed log-in screen with a valid user identification and a valid password.

The functionality features of Journal Entry Module 170, as described briefly in Figure 9 includes: Maintain Cross Reference 488, Select Transactions 492, Preview Transactions 496, Delete Transactions 500, Create Journal Entries 504, Preview Journal Entries 508, Export Journal Entries 512, Delete Journal Entries 516, and View JE Text File 520. The capabilities of each of these functions as well as dependencies are briefly explained in Figure 9.

#### IV. USER STEPS

Figure 10 is an alternative embodiment of Credit Line Process Flow. In this embodiment, the central database described above is maintained. More specifically, Figure 10 is a flowchart for process steps executed in one embodiment of system 10 (shown in Figure 1). First, a user or applicant will log on 530 to system 10 and select an option to maintain 540 the database. In a specific embodiment, the applicant is a bank, a company or any other organization. In yet another specific embodiment, an applicant or user enters a valid user identification and valid password into system 10. The user checks 544 whether a bank exists or does not exist in system 10. Where a particular bank does not exist, information about the bank is added 546 to system 10 by a user or applicant. If the bank does exist, the information about the bank is then edited 548. The information could be viewed 560 by the user relating to any bank that has been added or already exists in the system.

The next step involves the user checking 570 whether a credit line for a given bank exists or not. If after viewing 560 the bank, if credit line does not exist, the user adds 574 credit line to system 10. If a credit line does exist, it is edited 578 or viewed 580 by the user. The next step in the process involves determining 590 if the borrowing exists for credit line relating to a particular bank. If no borrowing information exists for actual borrowings, the user adds 594 the borrowing into system 10. Where borrowing exists against a given credit line, it is viewed 596, or deleted 600, as appropriate. If the user deletes borrowing 600, the user also deletes repayment with interest 604. After viewing borrowing, the user is requested to determine 610 whether repayment exists for a given borrowing. If repayment does not exist, the user adds 620 partial or full repayment with the interest as appropriate. If the repayment does exist, the user simply views repayment information 630.

In an alternative embodiment, system 10 (shown in Figure 1) maintains information beneficial to the determination of an applicant's eligibility for credit within the central database described above. The information includes, but is not

limited to, currency types, currency exchange rates, descriptions of applicants, exchange rates, federal funds rates, basis types, bank ratings, credit line types, payment types, bank information, bank rating history, bank contacts, journal entries and commitment fee information. Any currency type is included. An example of a  
 5 currency type includes, but is not limited to, Euro legacy currency. Maintaining basis types include, but is not limited to, allowing a user or applicant to add a basis type. Maintaining bank information includes, but is not limited to, allowing a user or applicant to change a bank name and update notes.

System 10 (shown in Figure 1) previews a transaction in an alternative  
 10 embodiment. Previewing a transaction includes displaying the record in the transaction file that is selected by using the cross-reference file and data parameters. If the selection criteria include unwanted transactions, a delete function is used to eliminate them.

After log-on authentication 530, System 10 also offers menu choice  
 15 options for generating Credit Line Reports 640 as well as Generating Borrowing Reports 650. Generate Credit Line Reports 640 permits the user to Generate Management Reports 654, Generate Accounting Reports 656, and Generate Cash Management Reports 658. System 10 allows the user to Generate Commitment Fee Wire Files 660 and to Submit Wire File to Bank Wire System 670. Similarly,  
 20 Generate Borrowing Reports 650 permits the user to Generate Management Reports 674, Generate Accounting Reports 676, and Generate Cash Management Reports 678. Generate Cash Management Reports 678 is linked to Input Bank Wire Data to Bank Wire System 680, directly.

## V. SYSTEM GENERATED REPORTS

As discussed in Figures 6, 7, 8, and 9, system 10 generates a variety of  
 25 reports including Credit Line Detail Report by Bank 330, Credit Line Detail Report by Expiration 334, GECC/GE Credit Lines Ranking Report 340, GECC Credit Lines Report 344, GECS Credit Lines 350, GECC Ratings Report 354, Credit Line Accrual Report by Bank Name 360, Credit Line Accrual Report by Pay Type 364, Credit Line  
 30 Payment Report 370, Gateway ACH Report 374, Gateway ACH File 380 which creates ACH fee payment file for submission to the bank wire system, Gateway Wire 384 which lists federal wire fee payment information, and finally Gateway Wire File 390 which creates wire fee payment file for submission to the bank wire system.

Although some of these reports have been described in terms of various specific embodiments, it is not intended that these reports be limited to these embodiments. Modifications within the spirit of invention will be apparent to those skilled in the art.

5 Figure 11 is an exemplary embodiment of credit line detail report by bank 330. This report displays selected bank and credit line information by bank name. Report 330 identifies a bank name 700, whether the bank is a foreign or a domestic bank 704, and also a bank rating code 708. Additionally, the report also identifies the credit line amount for GE 712, GECC 714 and GECS 720 in millions of  
10 dollars. A commitment fee in basis points 722 is also identified on the report. The report further identifies a calculation code 728, an effective date 730, and a termination date 734 of the credit line.

15 Figure 12 is an exemplary embodiment of a credit line detailed report by expiration 334. Report 334 displays selected bank and credit line information sorted by expiration date. Normally, report 334 is run on a monthly basis for management audit purposes. In an exemplary embodiment, report 334 identifies a bank code 740, a bank name 742, a credit line maturity type 744, a credit line amount for GE 746, GECC 748 and GECS 750. The report further identifies a commitment fee in basis points 756 as well as a termination date 760 of the credit line. The user  
20 has an option to insert any notes on this report, which are reflected against each bank. The report can be sorted in many different ways to improve the efficiency and utilization of the data.

25 Figure 13 is an exemplary embodiment of credit lines ranking report 340. This report displays a total credit line amount originated against each bank by entity. The content of the report includes a bank name 770, credit lines originators such as GECC 772 and GE 774, total credit lines 778 originated by GECC 772 and GE 774 with maturity type greater than one year, and some other relevant information. For example, in an exemplary embodiment the report identifies that Bank of America 780, with whom GECC 772 has originated credit line of \$2 billion  
30 and GE 774 has originated credit line of \$200 million, has extended a total credit line of \$2.2 billion.

Figure 14 is an exemplary embodiment of a credit line report 344 of GECC 772. Report 344 analyzes the credit lines originated by GECC 772 by credit types for domestic and international banks. Report 344 identifies a credit line type



790, a total credit line amount for domestic banks 794, a number of domestic banks involved in providing the total domestic credit line 798, a total credit line amount for international banks 800, a number of international credit lines 802, a total domestic and international credit line amount 806 and a number of domestic and international credit lines 810. The report further identifies total commitment fees in dollars 812 as well as commitment fees in basis points 816.

Figure 15 is an exemplary embodiment of GECC ratings report 354. Report 354 analyzes credit lines of GECC 772 by bank rating for domestic and international bank as of a specific date 828. For example, report 354 identifies that, 16.50% of the total credit lines 830 as of December 31, 1999 were provided by domestic and international banks having a credit rating of "A" 834. In other words, out of \$30.970 billion dollars of total credit lines 840 outstanding as of December 31, 1999, \$5.110 billion dollars of credit lines 842 were provided by domestic and international banks having a credit rating of "A" 834.

Figure 16 is an exemplary embodiment of credit line accrual report by bank name 360. This report displays commitment fee accruals for each credit line contract by a bank name 850 for a designated period 852. The report identifies a bank name 850, a payment type 854, cash management's model number 856, a fee accrual amount in U.S. dollars 860, a credit line amount 864, a commitment fee in basis points 866, number of days in the period 868, number of month-days and year-days used in the calculation, an effective date of the credit line contract 870, and a termination date 874 of the credit line contract.

Figure 17 is an exemplary embodiment of credit line accrual report by pay type 364. Report 364 displays commitment fee accruals 880 for each credit line contract 882 by a payment type 884 for a designated period 886. This report is similar to the report in Figure 16 and can be interpreted accordingly.

Figure 18 is an exemplary embodiment of a credit line payment report 370. Report 370 displays commitment fee payments for each credit line contract by payment type for designated period. Report 370 is run quarterly or at such frequent periods as needed by the management. It includes a payment type 890, a bank identification number 892, cash management model number 894, a bank name 896, and a fee payment amount 898 in U.S. dollar for each bank.

Figure 19 is an exemplary report on Gateway ACH report 374. This report displays the payment information in the Gateway ACH file. Report 374 is run quarterly. It is important that a credit line payment report and payment data to the credit line payment table is posted prior to running report 374. Report 374 includes funds transfer type 900, a transfer model identification number 902, an amount 904, which is a commitment fee amount in U.S. dollars, and a value date 908 used by the bank for its internal calculations.

Figure 20 is an exemplary embodiment of Gateway Wire report 384. Report 384 displays the payment information in the Gateway Wire file. Report 384 is run on a quarterly basis. Report 384 also includes a funds transfer type 910, a transfer model identification number 912, an amount of commitment fees in U.S. dollars 914, and a value date 920 used by bank for calculations.

Borrowing Module 160 of system 10 also generates a variety of management reports including Borrowing Detail Report by Due Date 440, Borrowing Detail Report by Expiration 444, Borrowing Detail Report by State / Country 448, Borrowing Detail Report by Unused Credit Line 452, Borrowing Detail Report by Value Date 456, Capacity Available Report by Bank 460, Borrowings Repayment Report 464, Borrowings Interest Paid Report by Currency 468, Borrowing Domestic ACH Report 472, Borrowings Domestic Wire Report 476, Borrowings Interest Accrual Report in Local Currency 480, and Composite Rate Report 484.

Figure 21 is an exemplary embodiment of Borrowing Detail Report By Due Date 440. This report displays selective borrowing information by due date. For example, report 440 identifies an originator of credit line 930, a borrower 932, a bank name 934, a currency type 936 such as Euro currency or Japanese Yen, a borrowed amount in local currency 940, an exchange rate 942 at the time of borrowing, borrowed amount in U.S. dollar 944, a due date 946, and any comments 948 on borrowings.

Figure 22 is an exemplary embodiment of a Borrowing Detail Report By Expiration 444. Report 444 displays selected borrowing information by credit line termination date. This report is similar to report 440 depicted in Figure 21. However, report 444 adds some additional information such as a date 950 that funds are available, a maturity date 952, U.S. dollar amount available for borrowing 954 and a credit line termination date 956.

Figure 23 is an exemplary embodiment of Borrowing Detail Report By State/Country 448. Report 448 displays selected borrowing information by a state/country 960 and a currency type 962. It also segregates the report in different ways to make it user friendly.

Figure 24 is an exemplary embodiment of Borrowing Detail Report By Unused Credit Lines 452. Report 452 displays selected borrowing information 964 by unused credit line 968. Report 452 is printed on an as needed basis. This report is similar to reports 444 and 448, as identified in Figures 22 and 23 respectively.

Figure 25 is an exemplary embodiment of Borrowing Detail Report By Value Date 456. Report 456 displays selected borrowing information 970 by a value date 972.

Figure 26 is an exemplary embodiment of capacity available report by bank 460. Report 460 displays unused credit line information by bank name. For example, in a specific embodiment report 460 displays a credit line identification number 976, an originator of a credit line 978, a bank name with which the credit line exists 980, a state or a country code 982, and an unused credit line 984 in U.S. dollars with a termination date 986 of a credit line.

Figure 27 is a borrowings repayment report 464. Report 464 displays selected borrowing repayment information by currency type within payment type. For example, report 464 identifies a particular payment type 990. Either ACH or wire 990, a bank identification code, a bank name 994, a currency code 996, a principal repayment amount in local currency 998, an interest repayment amount in local currency 1000, and a total payment 1002, which includes principal repayment as well as interest repayment in total currency. Reviewing report 464, the user notes that Citibank has been paid approximately \$100 million in local currency with a total interest payment of \$119,444.44, and the payment type was ACH.

Figure 28 is an exemplary embodiment of borrowings interest paid report by currency 468. Report 468 displays interest paid on borrowings information for a selected period 1008 by currency 1010 and a spread 1012.

Figure 29 is an exemplary embodiment of borrowings domestic ACH report 472. Report 472 displays domestic ACH funds transfer information for the repayment date. Report 472 also displays a funds transfer type 1014, total payment

1016 (which is broken down into principal and interest components), a repayment date 1018 and a value date 1020 which is the date used by banks for their calculations.

Figure 30 is an exemplary embodiment of borrowings domestic wire report 476. Report 476 displays domestic wire funds transfer information for the repayment date. The report identifies cash management's funds transfer code (type) 1022, transfer model I.D. 1024 which identifies cash management's model identification number, principal payment in local currency 1026, an interest payment in a local currency 1028, and a total payment 1032 which includes principal payment as well as interest payment in local currency. Report 476 also identifies a repayment date 1034 as well as a value date 1036.

Figure 31 is an exemplary embodiment of borrowings interest accruals report in local currency 480. Report 480 displays interest accrual information for a selected period. For example, report 480 identifies an originator of the credit line 1040, a borrower's name 1042, name of a bank 1044, a currency type 1046, an amount borrowed 1050 in local currency, interest accrued to date 1052, a borrowing spread 1056, a benchmark rate 1060, days outstanding in period 1062, a basis type 1066, a value date 1070, and a due date or a maturity date (not shown).

Figure 32 is an exemplary embodiment of composite rate report 484. Report 484 displays average rate information for each borrowing outstanding during the selected period. It identifies a name of a borrower 1080, a borrowing identification number 1082, credit line identification 1084, a currency type 1086, a start date (a date that funds are available) 1090, a maturity date (which is a due date) 1092, a loan period 1094, an ending balance 1096 which is the outstanding balance in local currency at the end of a report period, number of days outstanding in a report period 1098, and an average balance 1100 including interest expense 1102 and average rate 1104.

Credit Line Module 150, Borrowing Module 160 as well as Journal Entry Module 170, as disclosed in Figures 6, 7, 8 and 9 also generate other reports. These reports can be rearranged in different ways to meet the expectations of the management and to implement proper controls in the business operations.

While the invention has been described in terms of various specific embodiments, those skilled in the art will recognize that the invention can be practiced with modification within the spirit and scope of the claims.

WHAT IS CLAIMED IS:

1. A method for tracking bank credit lines and borrowing, using a Credit Line System coupled to a centralized database, said method comprising the steps of:

tracking credit ratings of a bank;

requesting the bank to establish a line of credit;

accessing a centralized database to obtain and maintain information regarding the line of credit;

automatically transmitting domestic and international wire information for cash movement to the bank; and

posting journal entries to a general ledger for financial monitoring, reporting and auditing purposes.

2. A method in accordance with Claim 1 wherein said step of accessing a centralized database to obtain and maintain information further comprises the steps of:

accessing at least one of current credit line commitments, history and amount available for borrowing from the financial institution; and

updating at least one of current credit line commitments, history and amount available for borrowing from the financial institution.

3. A method in accordance with Claim 1 wherein said step of accessing a centralized database to obtain and maintain information further comprises the steps of:

accessing at least one of real-time current borrowings, repayments and history for each credit line; and

updating at least one of real-time current borrowings, repayments and history for each credit line.

4. A method in accordance with Claim 1 wherein said step of posting journal entries to a general ledger further comprises the step of transmitting borrowing journal entries to the general ledger.

5. A method in accordance with Claim 1 wherein said step of tracking credit rating of a bank further comprises the step of tracking any financial institution's credit rating.

6. A method in accordance with according to Claim 1 wherein said step of posting journal entries to a general ledger further comprises the step of processing information contained in the centralized database.

7. A method according to Claim 1 wherein said step of updating at least one of real-time current borrowings, repayments and history for each credit line further comprises the step of updating real time borrowings in multi-currency.

8. A method according to Claim 1 further comprising the step of borrowing under the credit line.

9. A method for tracking bank credit lines and borrowing, using a Credit Line System coupled to a centralized database, said method comprising the steps of:

processing information utilizing a credit line module, a borrowing module, and a journal entry module;

creating journal entries; and

posting the journal entries to record the transactions on a general ledger for facilitating the preparations of financial statements.

10. A method in accordance with Claim 9 wherein said step of processing information further comprises the steps of:

maintaining information within three modules;

generating a variety of management reports; and

printing the variety of management reports.

11. A method in accordance with Claim 10 wherein said step of maintaining information further comprises the steps of:

reviewing information contained in the database periodically; and

updating information in the centralized database by at least one of adding information to the centralized database, and deleting information as required to keep the system current.

12. A method in accordance with Claim 10 wherein said step of generating a variety of management reports further comprises the step of generating a variety of Credit Line Module Reports in a pre-determined format including at least one of a Credit Line Detail Report by Bank, a Credit Line Detail Report by Expiration, a Credit Lines Ranking Report, a Credit Lines Report, Credit Lines, Ratings Report, a Credit Line Accrual Report by Bank Name, a Credit Line Accrual Report by Pay Type, a Credit Line Payment Report, a Gateway ACH Report, a Gateway ACH File which creates ACH fee payment file for submission to the bank wire system, a Gateway Wire which Lists Fed wire fee payment information, and a Gateway Wire File which Creates wire fee payment file for submission to the bank wire system.

13. A method in accordance with Claim 10 wherein said step of generating a variety of management reports further comprises the step of generating a variety of Borrowing Module reports in a pre-determined format including at least one of a Borrowing Detail Report by Due Date, a Borrowing Detail Report by Expiration, a Borrowing Detail Report by State / Country, a Borrowing Detail Report by Unused Credit Line, a Borrowing Detail Report by Value Date, a Capacity Available Report by Bank, a Borrowings Repayment Report, a Borrowings Interest Paid Report by Currency, a Borrowing Domestic ACH Report, a Borrowings Domestic Wire Report, a Borrowings Interest Accrual Report in Local Country, and a Composite Rate Report.

14. A method in accordance with Claim 10 wherein said step of generating a variety of management reports further comprises the step of generating a variety of Journal Entry Reports in a pre-determined formats.

15. A system for tracking bank credit lines and borrowing against the credit lines using a Credit Line System, said system comprising:

a server system, a client system configured with a browser, a centralized database coupled to said server system, said server system connected to said client system and configured to:

track credit ratings of a bank;

5 access a centralized database to obtain and maintain information regarding the line of credit;

transmit domestic and international wire information for cash movement to the bank; and

10 post journal entries to a general ledger for financial monitoring, reporting and auditing purposes.

16. A system in accordance with Claim 15 wherein said server system further configured to:

access at least one of current credit line commitments, history and amount available for borrowing from the financial institution; and

15 update at least one of current credit line commitments, history and amount available for borrowing from the financial institution.

17. A system in accordance with Claim 15 wherein said server system further configured to:

20 access at least one of real-time current borrowings, repayments and history for each credit line; and

update at least one of real-time current borrowings, repayments and history for each credit line.

18. A system in accordance with Claim 15 wherein said server system further configured to transmit borrowing journal entries to the general ledger.

25 19. A system in accordance with Claim 15 wherein said server system further configured to track any financial institution's credit rating.



20. A system in accordance with Claim 15 wherein said server system further configured to process information contained in the centralized database.

21. A system in accordance with Claim 15 wherein said server system further configured to update real time borrowings in multi-currency.

22. A system in accordance with Claim 15 wherein said server system further configured to borrow under the credit line.

23. A system for tracking bank credit lines and borrowing using a Credit Line System, said system comprising:

a server system, a client system configured with a browser, a centralized database coupled to said server system, said server system connected to said client system and configured to:

process information contained in the centralized database utilizing modules comprised of:

a credit line module to maintain credit lines;

a borrowing module to maintain borrowings from the bank; and

a journal entry module, said journal entry module integrated with the credit line module and the borrowing module to process information to create journal entries and post the journal entries to record the transactions on the general ledger for facilitating the preparations of financial statements.

24. A system in accordance with Claim 23 wherein said server system further configured to:

maintain information within three modules;

generate a variety of management reports; and

print the variety of management reports.

25. A system in accordance with Claim 23 wherein said server system further configured to:

review information contained in the database periodically; and

update information in the centralized database by at least one of adding information to the centralized database, and deleting information as required to keep the system current.

5                   26.    A system in accordance with Claim 23 wherein said server system further configured to generate a variety of Credit Line Module Reports in a pre-determined format including at least one of a Credit Line Detail Report by Bank, a Credit Line Detail Report by Expiration, a Credit Lines Ranking Report, a Credit Lines Report, Credit Lines, Ratings Report, a Credit Line Accrual Report by Bank  
10   Name, a Credit Line Accrual Report by Pay Type, a Credit Line Payment Report, a Gateway ACH Report, a Gateway ACH File which creates ACH fee payment file for submission to the bank wire system, a Gateway Wire which Lists Fed wire fee payment information, and a Gateway Wire File which Creates wire fee payment file for submission to the bank wire system.

15                   27.    A system in accordance with Claim 23 wherein said server system further configured to generate a variety of Borrowing Module reports in a pre-determined format including at least one of a Borrowing Detail Report by Due Date, a Borrowing Detail Report by Expiration, a Borrowing Detail Report by State / Country, a Borrowing Detail Report by Unused Credit Line, a Borrowing Detail  
20   Report by Value Date, a Capacity Available Report by Bank, a Borrowings Repayment Report, a Borrowings Interest Paid Report by Currency, a Borrowing Domestic ACH Report, a Borrowings Domestic Wire Report, a Borrowings Interest Accrual Report in Local Currency, and a Composite Rate Report.

25                   28.    A system in accordance with Claim 23 wherein said server system further configured to generate a variety of Journal Entry Reports in a pre-determined formats.

                  29.    A system in accordance with Claim 23 wherein said server system further configured to establish a communication link with the client system and authenticate the client system.

30                   30.    A system in accordance with Claim 23 wherein said server system further configured to link with a client system by at least one of a wide area network, a local area network, an intranet and the Internet.

31. A computer program for tracking bank credit lines and borrowing using a Credit Line System, the Credit Line System which includes a server system, a client system configured with a browser, a centralized database coupled to the server system, the server system connected to the client system, said computer program comprising:

a code segment to process information contained in the centralized database utilizing a credit line module to maintain credit lines;

a code segment to maintain borrowings against a credit line with a bank utilizing a borrowing module; and

a code segment to process journal entries utilizing a journal entry module; the journal entry module integrated with the credit line module and the borrowing module to process information to create borrowing journal entries and post the borrowing journal entries to record the transactions on the general ledger for facilitating the preparations of financial statements.

32. A computer program for tracking bank credit lines and borrowing using a Credit Line System, comprising:

a code segment that tracks credit ratings of a bank;

a code segment that accesses a centralized database to obtain and maintain information regarding the line of credit;

a code segment that transmits domestic and international wire information for cash movement to the bank; and

a code segment that posts borrowing journal entries to a general ledger for financial monitoring, reporting and auditing purposes.

33. The computer program as recited in Claim 32 further comprising:

a code segment that accesses at least one of current credit line commitments, history and amount available for borrowing from the financial institution; and

a code segment that updates at least one of current credit line commitments, history and amount available for borrowing from the financial institution.

34. The computer program as recited in Claim 32 further comprising:

a code segment that accesses at least one of real-time current borrowings, repayments and history for each credit line; and

a code segment that updates at least one of real-time current borrowings, repayments and history for each credit line.

35. The computer program as recited in Claim 32 further comprising a code segment that transmits borrowing journal entries to the general ledger.

36. The computer program as recited in Claim 32 further comprising a code segment that tracks any financial institution's credit rating.

37. The computer program as recited in Claim 32 further comprising a code segment that processes information contained in the centralized database.

38. The computer program as recited in Claim 32 further comprising a code segment that updates real time borrowings in multi-currency.

39. The computer program as recited in Claim 32 further comprising a code segment that borrows under the credit line.

40. The computer program as recited in Claim 32 further comprising a code segment that generates a variety of Credit Line Module Reports in a pre-determined format including at least one of a Credit Line Detail Report by Bank, a Credit Line Detail Report by Expiration, a Credit Lines Ranking Report, a Credit Lines Report, Credit Lines, Ratings Report, a Credit Line Accrual Report by Bank Name, a Credit Line Accrual Report by Pay Type, a Credit Line Payment Report, a Gateway ACH Report, a Gateway ACH File which creates ACH fee payment file for submission to the bank wire system, a Gateway Wire which Lists Fed wire fee

payment information, and a Gateway Wire File which Creates wire fee payment file for submission to the bank wire system.

41. The computer program as recited in Claim 32 further comprising a code segment that generates a variety of Borrowing Module reports in a pre-determined format including at least one of a Borrowing Detail Report by Due Date, a Borrowing Detail Report by Expiration, a Borrowing Detail Report by State / Country, a Borrowing Detail Report by Unused Credit Line, a Borrowing Detail Report by Value Date, a Capacity Available Report by Bank, a Borrowings Repayment Report, a Borrowings Interest Paid Report by Currency, a Borrowing Domestic ACH Report, a Borrowings Domestic Wire Report, a Borrowings Interest Accrual Report in Local Currency, and a Composite Rate Report.

42. The computer program as recited in Claim 32 further comprising a code segment that generates a variety of Journal Entry Reports in a pre-determined formats.

43. The computer program as recited in Claim 32 further comprising a code segment that generates a journal entry file in a predetermined format for posting to a general ledger.

44. The computer program as recited in Claim 32 wherein the data is received from the user via a graphical user interface.

## SYSTEMS AND METHODS FOR CREDIT LINE MONITORING

### ABSTRACT OF THE DISCLOSURE

In one embodiment, the present invention is a method and a system for tracking bank credit lines and borrowing. The method involves tracking credit ratings of a bank, requesting the bank to establish a line of credit, accessing a centralized database to obtain and maintain information regarding the line of credit, automatically transmitting domestic and international wire information for cash movement to the bank, and finally posting borrowing journal entries to a general ledger for financial monitoring, reporting and auditing purposes. The method and the system are capable of handling multi-currency transactions involving domestic and international banks.

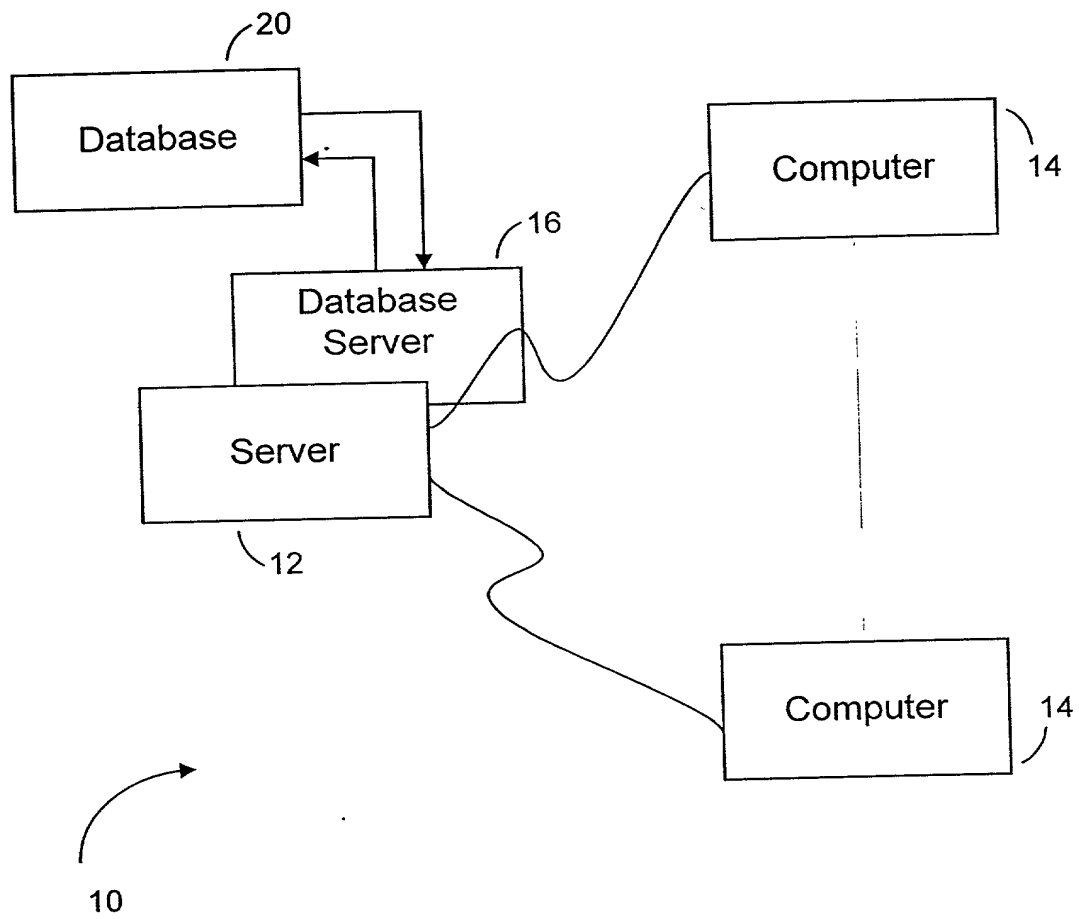


FIG. 1

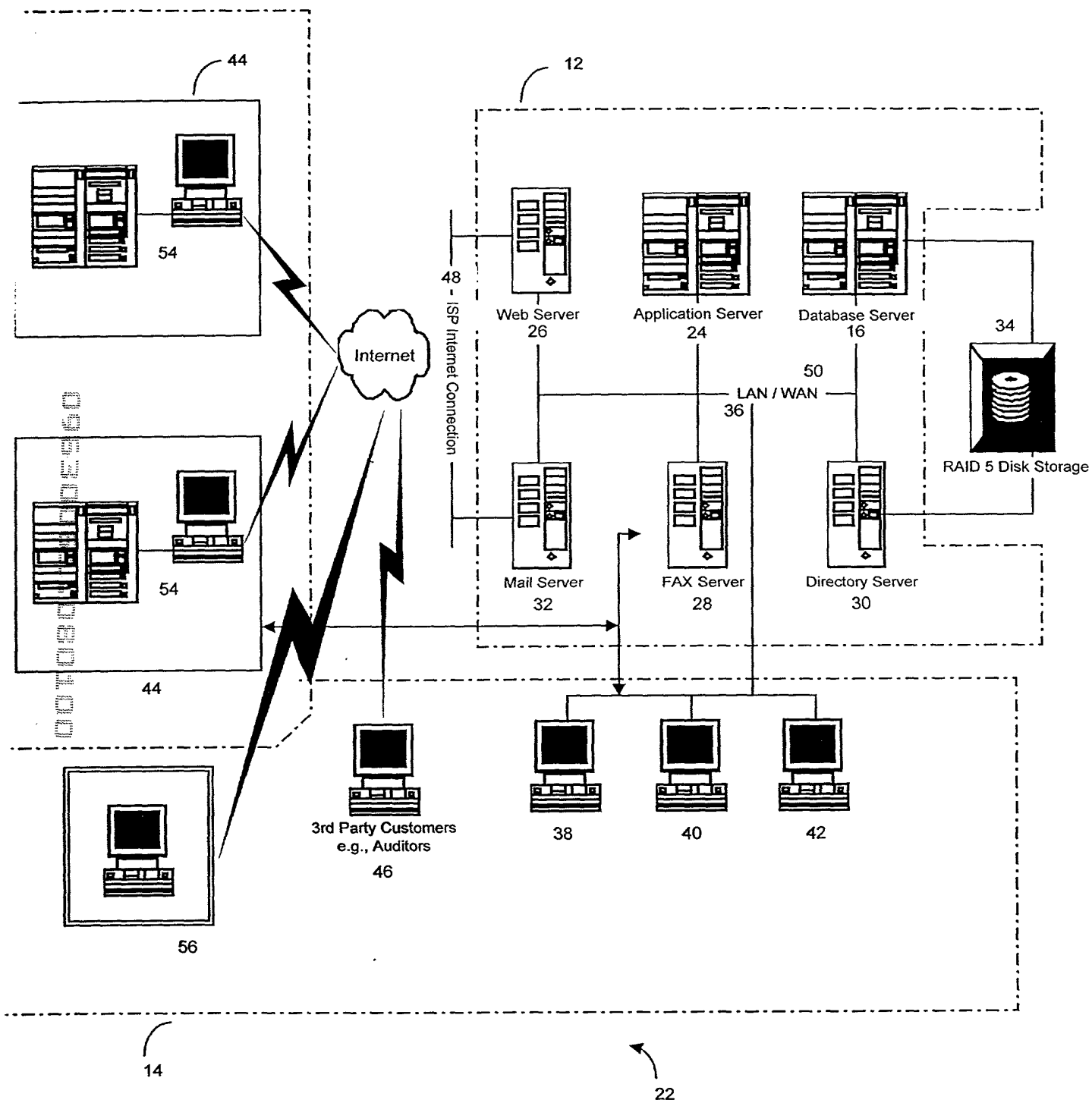
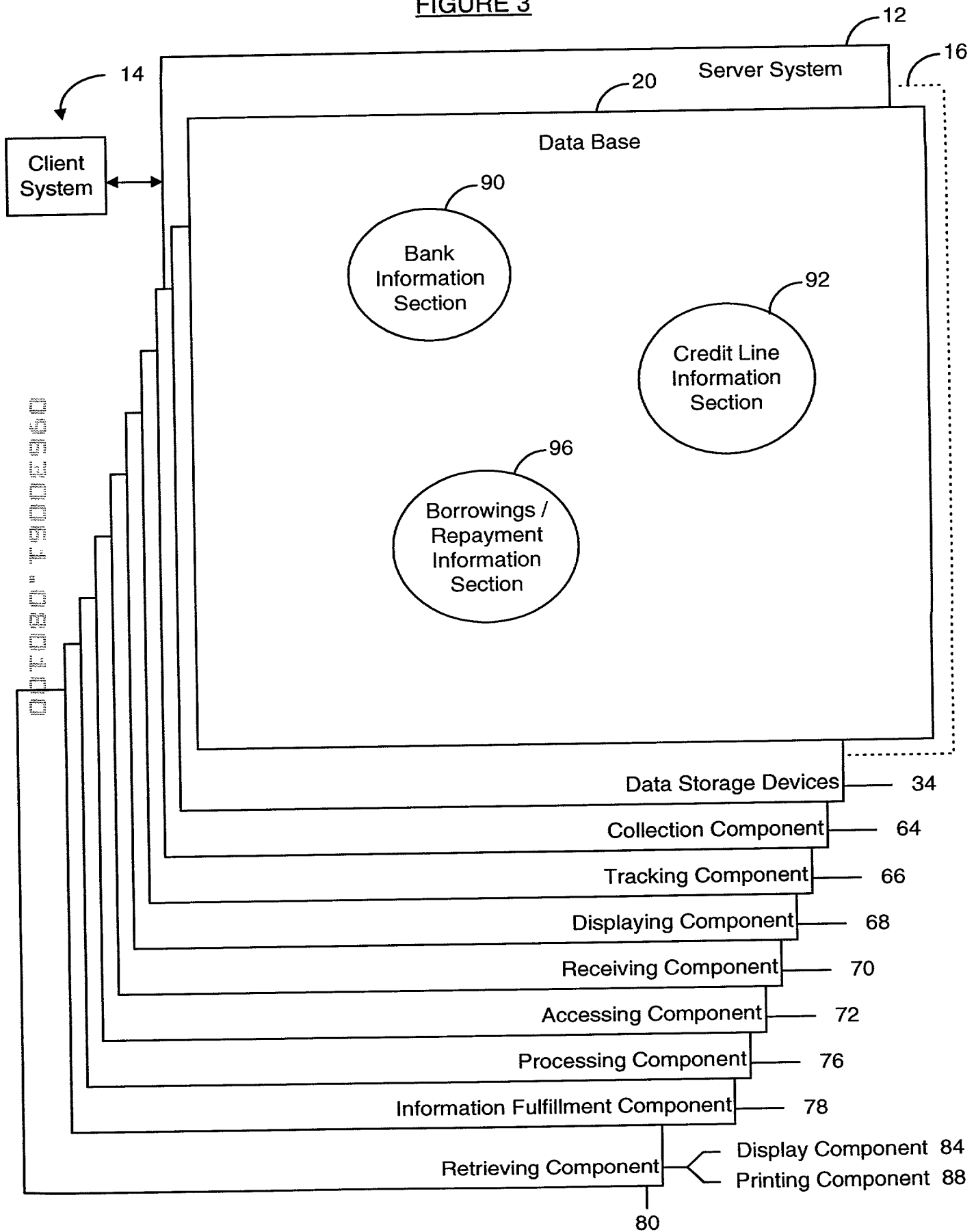


FIGURE 2



FIGURE 3



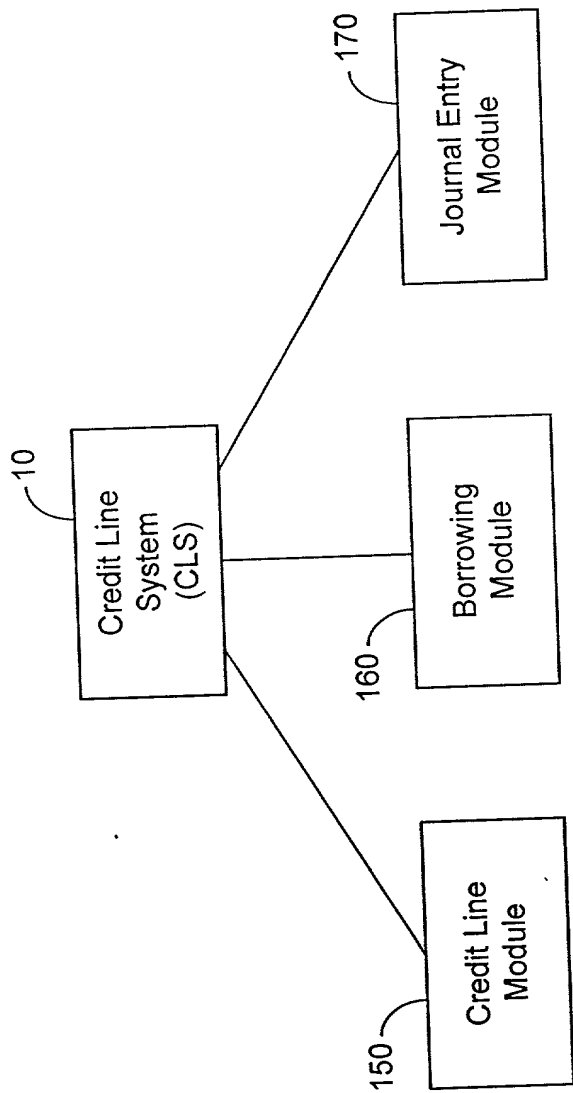
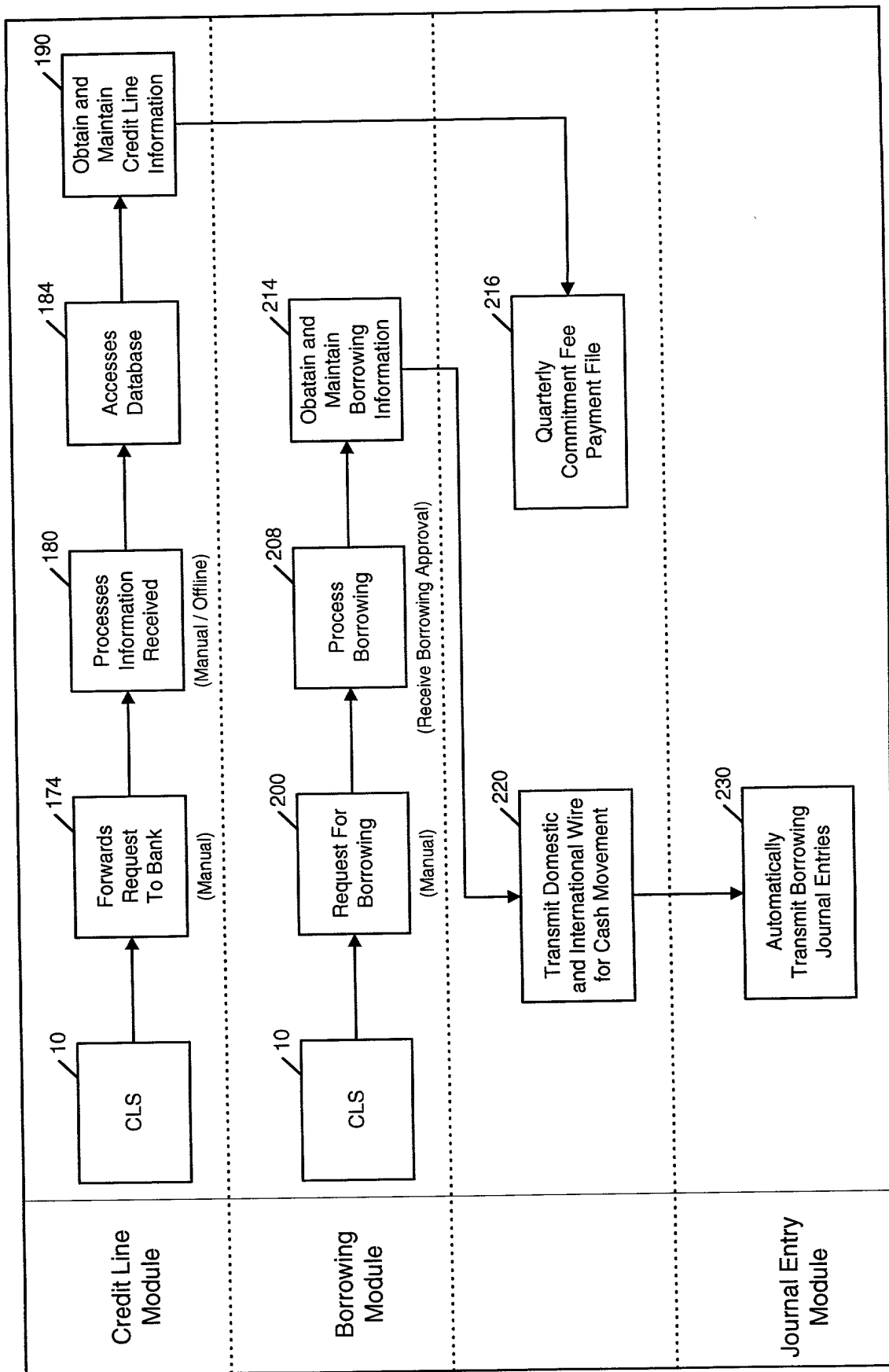


FIGURE 4

FIGURE 5



## FIGURE - 6

Function Name	Function Description	Function Dependencies
1.00 Credit Line Module	Login process and security checks	N/A
1.01 Login		
1.02 Maintain State / Country Type	Add, update, delete, view valid state / country types	N/A
1.03 Maintain Basis Type	Add, update, delete, view valid basis types	N/A
1.04 Maintain Bank Rating	Add, update, delete, view valid bank ratings	N/A
1.05 Maintain Credit Line Type	Add, update, delete, view valid credit line types	N/A
1.06 Maintain Payment Type	Add, update, delete, view valid commitment fee payment types	N/A
1.07 Maintain Bank	Add, update, view bank information	Maintain State Type Maintain Bank Rating
1.08 Change Bank Rating History	Updates bank rating for a specific bank	Maintain Bank
1.09 Maintain Bank Contact	Add, update, view bank contact information	Maintain Bank
1.10 Maintain Commitment Fee	Add, view default credit line commitment fees by originator	N/A
1.11 Add Credit Line Contract	Add, view new credit line contract	Maintain Bank Maintain Basis Type Maintain Credit Line Type Maintain Payment Type Maintain Commit Fee
1.12 Amend Credit Line Contract	Amend, view credit line contract	Add Credit Line Contract
1.13 Cancel Credit Line Contract	Terminate, view credit line contract	Add Credit Line Contract
1.14 Extend Credit Line Contract	Extend the termination date on credit line contract	Add Credit Line Contract
1.15 Change Maturity Type	Change the maturity type of a contract	Add Credit Line Contract
1.16 Merge Credit Line Contract	Transfer credit line contract and borrowings to a merged or acquiring bank	Add Credit Line Contract

## FIGURE - 7

328	1.17	Update Notes	Update credit line contract notes	Add Credit Line Contract
330	1.18	Generate Credit Line Detail Report by Bank	Lists credit line information by bank	N/A
334	1.19	Generate Credit Line Detail Report by Expiration	Lists credit line information by termination date	N/A
340	1.20	Generate GECC/GE Credit Lines Ranking Report	Lists GECC and GE originated credit lines by total credit line amount	N/A
344	1.21	Generate GECC Credit Lines Report	Analyzes GECC credit line types by total line for domestic and international banks, total fee in US\$ and fee in basis points	N/A
350	1.22	Generate GECS Credit Lines Report	Analyzes GECS credit line types by total Line for domestic and international banks, Total fee in US\$ and fee in basis points	N/A
354	1.23	Generate GECC Ratings Report	Analyzes GECC's Credit Lines by bank rating	N/A
360	1.24	Generate Credit Line Accrual Report by Bank Name	Lists fee accrual information by bank name	N/A
364	1.25	Generate Credit Line Accrual Report by Pay Type	Lists fee accrual information by payment type	N/A
370	1.26	Generate Credit Line Payment Report	Lists fee payment information	N/A
374	1.27	Generate Gateway ACH Report	Lists ACH fee payment information	Generate Credit Line Payment Report
380	1.28	Generate Gateway ACH File	Creates ACH fee payment file for submission to the bank wire system	Generate Credit Line Payment Report
384	1.29	Generate Gateway Wire Report	Lists Fed wire fee payment information	Generate Credit Line Payment Report
390	1.30	Generate Gateway Wire File	Creates wire fee payment file for submission to the bank wire system	Generate Credit Line Payment Report

# Figure 8

160	2.00	Borrowing Module		
400	2.01	Maintain Currency Type	Add, update, delete, view valid currency types	N/A
404	2.02	Maintain Available Currency	Add, delete, view valid currency types for a credit line contract	Maintain Currency Type
408	2.03	Maintain Currency Exchange Rate	Add, delete, view valid currency exchange rates	Maintain Currency Type
412	2.04	Maintain Borrowing Spread	Add, delete, view valid borrowing spread	Maintain Credit Line Type
416	2.05	Maintain Benchmark Description	Add, update, delete, view valid benchmark descriptions	N/A
420	2.06	Maintain Benchmark Rate	Add, delete, view valid benchmark rates	Maintain Benchmark Description
424	2.07	Maintain Fed Funds Rate	Add, delete, view valid fed funds rates	N/A
428	2.08	Add Borrowing	Add, view new borrowing	Maintain Available Currency Maintain Currency Exchange Rate Maintain Borrowing Spread Maintain Benchmark Rate Maintain Fed Funds Rate
432	2.09	Delete Borrowing	Delete, view borrowing	Add Borrowing
436	2.10	Add Repayment	Add, view repayments	Add Borrowing
440	2.11	Generate Borrowing Detail Report by Due Date	Lists borrowing information by due date	N/A
444	2.12	Generate Borrowing Detail Report by Expiration	Lists borrowing information by termination date	N/A
448	2.13	Generate Borrowing Detail Report by state / country	Lists borrowing information by state / country	N/A
452	2.14	Generate Borrowing Detail Report by Unused Credit Line	Lists borrowing information by unused credit line	N/A
456	2.15	Generate Borrowing Detail Report by Value Date	Lists borrowing information by value date	N/A
460	2.16	Generate Capacity Available Report by Bank	Lists unused amount of each credit line contract by bank name	N/A
464	2.17	Generate Borrowings Repayment Report	Lists repayment information by bank name within currency within payment type	N/A
468	2.18	Generate Borrowings Interest Paid Report by Currency	Lists interest paid by bank name within due date within currency within borrower	N/A
472	2.19	Generate Borrowings Domestic ACH Report	Lists principal, interest and total payment information by model id within transfer type	N/A
476	2.20	Generate Borrowings Domestic Wire Report	Lists principal, interest and total payment information by model id within transfer type	N/A
480	2.21	Generate Borrowings Interest Accrual Report in Local Currency	Lists interest accrual information by due date within currency within borrower	N/A
484	2.22	Generate Composite Rate Report	Lists interest expense, ending balance, average balance and average rate by currency within borrower	N/A

001000-1900E60

## Figure 9

170	3.00 Journal Entry Module		
488	3.01 Maintain Cross Reference	Provides journal entry information	N/A
492	3.02 Select Transactions	Selects principal draw down, principal repayment, interest payment and interest accrual transactions for journalization	Maintain Cross Reference
496	3.03 Preview Transactions	Views the selected transactions	N/A
500	3.04 Delete Transactions	Deletes transactions from the transaction file.	N/A
504	3.05 Create Journal Entries	Uses the transaction records to create journal entries	Select transactions
508	3.06 Preview Journal Entries	Views the journal entries	N/A
512	3.07 Export Journal Entries	Loads journal entries into test file on the 'C' drive	Create Journal Entries
516	3.08 Delete Journal Entries	Deletes the journal entries from the journal entry file	N/A
520	3.09 View JE Text File	Views the journal entries in the text file	N/A

**FIGURE-10**  
**Credit Line Process Flow**

Bill, Viny, Gray

**Credit Line Application Resides on  
Treasury Server**

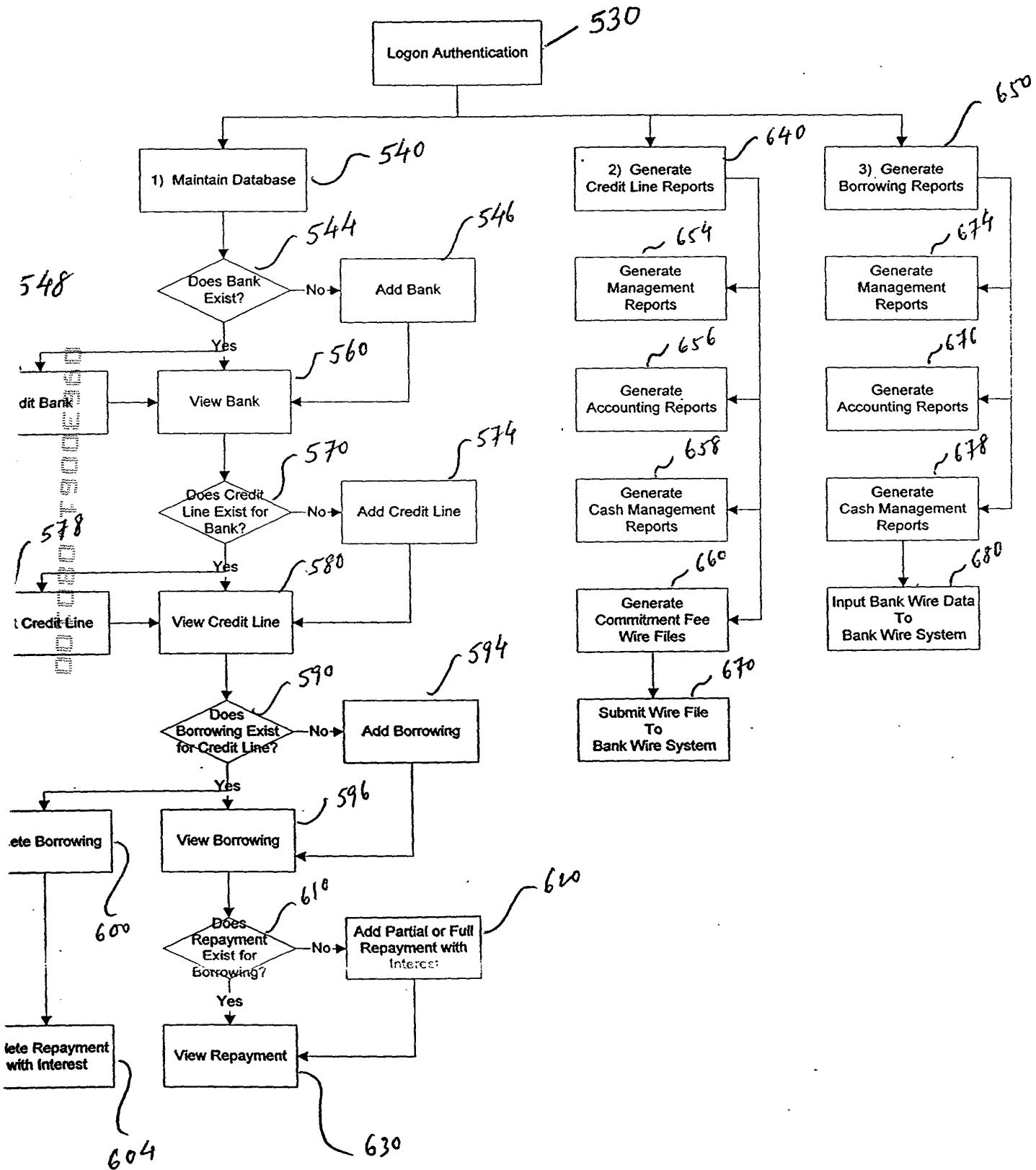




Figure 11

# Generate Credit Line Detail Report by Bank

09630061 080100

GECC Credit Lines Report By Expiration

1 of 8 100% Ref-run Report

Preview

CONFIDENTIAL

Print Date: 1/5/2000 4:26:32 PM

As of: 12/31/99

Credit Line Detail Report

P Code	BK Code	Bank Name	F/O	State	Country	Rating	CL Type	Originator	Available to (\$MM)	GE	GECC	GECS	Fee	Cal	Effective Date	Termination Date
UNI	UNI	UNION BANK	D	CA	US	SR	GECC	0	100	0	10.00	A	12/31/97	12/31/97		
WELL	WELL	WELLS FARGO BANK	D	CA	US	SR	GECC	0	50	0	6.00	A	6/28/99	6/28/99		
WELL	WELL	WELLS FARGO BANK	D	CA	US	SR	GECC	0	90	0	10.00	A	7/31/99	7/31/99		
FLT	FLT	FLEET BANK, N.A.	D	CT	US	SR	GE	100	100	100	6.00	A	7/31/99	7/31/99		
FLT	FLT	FLEET BANK, N.A.	D	CT	US	SR	GECC	0	300	0	10.00	A	7/31/99	7/31/99		
FLT	FLT	FLEET BANK, N.A.	D	CT	US	SR	GECC	130	130	130	8.00	A	11/31/99	11/31/99		
D40	D40	SUNTRUST BANKS, INC	D	GA	US	1E	GECC	0	75	0	6.00	A	6/30/96	6/30/96		
D40	D40	SUNTRUST BANKS, INC	D	GA	US	1E	GECC	0	115	0	6.00	A	6/30/99	6/30/99		
D40	D40	SUNTRUST BANKS, INC	D	GA	US	1E	GECC	0	85	0	12.50	A	6/30/99	6/30/99		
D40	D40	SUNTRUST BANKS, INC	D	GA	US	1E	GECC	40	40	40	8.00	A	11/31/99	11/31/99		
D40	D40	SUNTRUST BANKS, INC	D	GA	US	1E	GECC	0	250	0	6.00	A	4/15/99	4/15/99		
WACH	WACH	WACHOVIA	D	GA	US	SR	GECC	0	60	0	10.00	A	4/15/96	4/15/96		
WACH	WACH	WACHOVIA	D	GA	US	SR	GECC	0	75	0	12.50	A	11/31/99	11/31/99		
964	964	BANK OF HAWAII	D	HI	US	SR	GECC	0	60	0	12.50	A	8/31/99	8/31/99		
969	969	FIRST HAWAIIAN BANK	D	HI	US	SR	GECC	0	150	0	10.00	A	7/31/96	7/31/96		
90A	90A	BANK OF AMERICA, IL	D	IL	US	SR	GECC	0	100	0	10.00	A	3/30/96	3/30/96		
FN8C	FN8C	FIRST NS OF CHICAGO	D	IL	US	SR	GECC	0	250	0	6.00	A	11/26/99	11/26/99		
FN8C	FN8C	FIRST NS OF CHICAGO	D	IL	US	SR	GECC	0	75	0	4.00	A	4/14/99	4/14/99		
TNT	TNT	NORTHERN TRUST CO	D	IL	US	SR	GECC	0	60	0	10.00	A	4/16/96	4/16/96		
TNT	TNT	NORTHERN TRUST CO	D	IL	US	SR	GECC	40	40	40	8.00	A	11/31/99	11/31/99		
TNT	TNT	NORTHERN TRUST CO	D	IL	US	SR	GECC	0	30	0	6.00	A	6/30/96	6/30/96		
958	958	STATE STREET BK & TR CO	D	MA	US	1E	GECC	0	10	10	8.00	A	11/31/99	11/31/99		
958	958	STATE STREET BK & TR CO	D	MA	US	1E	GECC	0	10	10	8.00	A	11/31/99	11/31/99		
116	116	FNB MARYLAND (FNB MD)	D	MD	US	SR	GECC	0	75	0	10.00	A	7/31/96	7/31/96		
965	965	COMMERCE BANK - DETROIT	D	MI	US	SR	GECC	0	175	0	12.50	A	6/31/99	6/31/99		
969	969	COMMERCE BANK - MI CITY	D	MI	US	SR	GECC	0	80	0	6.00	A	11/31/99	11/31/99		
969	969	COMMERCE BANK - MI CITY	D	MI	US	SR	GECC	30	30	30	8.00	A	1/13/99	1/13/99		
90A	90A	BANK OF AMERICA	D	NC	US	SR	GE	300	300	300	6.00	A	1/13/99	1/13/99		
90A	90A	BANK OF AMERICA	D	NC	US	SR	GECC	0	300	0	6.00	A	1/13/99	1/13/99		

700 704 714 720 722 734

708 712 728 730

Figure 12

# Generate Credit Line Detail Report by Expiration

CONFIDENTIAL

Run Date: 12/20/00 6:27 13PM

As of: 12/31/99

Credit Line Detail Report By Expiration

BN Code	Bank Name	CL Type	Available (\$MM)	GE	GECC	GECS	Fee	Termination Date	Notes
BFCE	BANQUE FRANCAISE COM. EX.	1E	0	60	0	0	4.00		
BNP	BANQUE NATL. DE PARIS	1E	0	200	0	0	4.00		
CE	CREDIT SUISSE	1E	0	300	250	0	4.00		
FUJ	FUJIBANK LTD.	1E	0	200	0	0	4.00		
SSS	STATE STREET BK & TR CO	1E	0	30	0	0	4.00		
S40	SUNTRUST BANKS, INC.	1E	0	75	0	0	4.00		CHANGED NAME FROM TRUST COMPANY BANK
UJB	UNITED JERSEY BANK	1E	0	60	0	0	4.00		
Count	7								
Total (\$MM)			0	905	250				
BNL	BANCAHAZIE DEL LAVORO	1R	0	100	0	0	4.00	12/1/99	INCREASED FROM \$50MM, EXTENDED TO 12/31/99
BOA	BANK OF AMERICA	1R	0	200	200	0	4.00	1/1/00	BOUGHT BY NATIONSBANK CALLED BANK AM, EXTEND 1/99 DOC 7/99
COMZ	COMMERZBANK	1R	0	470	0	0	4.00	1/1/00	EXTENDED FOR 364 DAYS AS OF 2/1/99
DAB	DAI - KOKI KANGYO BANK	1R	0	400	0	0	4.00	2/29/00	EXTENDED 364 DAY FOR ADDL ONE YEAR
DRCS	DRISCHER BANK	1R	0	398	0	0	4.00	2/29/00	EXTENDED 364 DAY ON 4/1/99, DOC'S RECEIVED
SUD	LS BADEN-WURTEMBERG	1R	0	60	0	0	4.00	2/29/00	EXTENDED FOR 364 DAYS, NAME CHANGED FROM SUDWEST LB
DO	DO BANK	1R	0	250	0	0	4.00	3/6/00	EXTENDED 364 DAY REVOLVER FOR ADDL YR. ON 4/1/99
RBC	ROYAL BANK OF CANADA	1R	0	600	600	0	4.00	3/6/00	EXTENDED FOR 336 DAYS ON 3/31/99 AS PER OUR REQUEST
BBV	BANCO BILBAO VIZCAYA	1R	0	300	0	0	4.00	3/13/00	EXTENDED 364 DAY LINE, DOC'S REQUIRED (2/25/99)
WACH	WACHOVIA	1R	0	250	0	0	4.00	3/13/00	EXTENDED 364 DAY LINE TO 3/13/2000
TNT	NORTHERN TRUST CO	1R	0	75	0	0	4.00	3/16/00	EXTENDED 364 DAY LINE TO 3/16/2000
BTZ	BARCLAYS BANK PLC	1R	0	200	0	0	4.00	3/26/00	RENEWED ON 3/27/99, DOC'S RECEIVED
BOA	BANK OF AMERICA	1R	0	600	0	0	4.00	3/29/00	NATIONSBANK LINE CONVERTED TO BOA, EXTENDED ON 3/29/99
ABK	ABN AMRO	1R	280	280	280	0	4.00	4/07/00	SPECIAL PURPOSE 12K CREDIT LINE
ANZ	ANZ BANK	1R	10	10	10	0	4.00	4/07/00	SPECIAL PURPOSE 12K CREDIT LINE
PCI	BANCA COMMERCIALE ITALIANA	1R	120	120	120	0	4.00	4/07/00	SPECIAL PURPOSE 12K CREDIT LINE

Start End 12/18/00 12/18/00 12/18/00 12/18/00 12/18/00 12/18/00 12/18/00 12/18/00 12/18/00 12/18/00

00670051.030100

748

750

Figure 13

## Generate GECC/GE Credit Lines Ranking Report

GECC / GE / Credit Lines Ranking As of 12/31/1999 (SMM)

10/9/2000 5:53:02PM 1 of 3

770 778 772 774

Originated By \*\*

Bank Name	Total *	GECC	GE	FYI Total Multiyear
1 BANK OF AMERICA	2,200	2,000	200	800
2 CHASE MANHATTAN BANK	2,000	1,600	400	350
3 CITIBANK	1,700	1,100	600	300
4 BANQUE PARISIENNE	1,400	1,150	250	250
5 HSBC/MARINE MIDLAND	1,255	905	350	100
6 DEUTSCHE BANK	1,200	950	250	0
7 ABN-AMRO	1,130	680	250	0
8 BANK OF TOKYO-MITSUBISHI	950	620	130	250
9 UBS AG	930	730	200	300
10 MORGAN GUARANTEE TR CO	930	680	250	0
11 SAKURA BANK LTD	800	650	200	325
12 SUMITOMO BANK LTD	725	725	0	350
13 COMMERZBANK	700	700	0	250
14 BANCO BILBAO VIZCAYA	670	670	0	200
15 FUJI BANK LTD	670	570	100	250
16 ROYAL BANK OF CANADA	670	670	0	0
17 BAYERISCHE KUNDE-UND VEREINSBANK	640	640	0	50
18 LLOYDS BANK PLC	600	600	0	500
19 DRESDNER BANK	600	600	0	250
20 BANQUE PARIBAS	540	540	0	85
21 FLEET BANK, N.A.	530	430	100	300
22 WESTPAC	530	480	50	250
23 INTERNATIONAL BANK	425	425	0	0

780

Print Screen Print Screen Print Screen Print Screen Print Screen Print Screen Print Screen Print Screen

Figure 14

## Generate GECS Credit Lines Report

Analysis of GECC Lines

1 of 1

100%

Re-Run Report

Preview

GECS Credit Lines

Analysis of GECC Originated Lines As of 12/31/1999 (\$MM)

1/05/2000  
6:08:18PM  
1 of 1

TYPE	DOM	#	INTL	#	TOTAL	#	% OF TOTAL	FEE (\$K)	FEE
1E	0	0	250	1	250	1	2.80	150	6.00
1R	1,400	3	650	2	2,050	5	22.98	1,200	6.00
1R	2,135	13	3,335	23	5,470	36	61.32	4,376	6.00
Subtotal	3,535	16	4,235	26	7,770	42	87.11	5,756	6.67
SR	650	2	100	1	750	3	8.41	750	10.00
Subtotal	650	2	100	1	750	3	8.41	750	10.00
7R	400	1	0	0	400	1	4.46	500	12.50
Subtotal	400	1	0	0	400	1	4.46	500	12.50
Total	4,585	19	4,335	27	8,920	46	100.00	7,006	7.85
Unique Banks		13		25		36			

790 794 798 800 802

806 810 812 816

Start Cancel Print Run Main File Credit Line Filter Credit Line Apply Exit Microsoft Word Microsoft Word Analysis of GECS Lines 1/05/2000

001030" T9005960

Figure 1 displays 12 EPR spectra, labeled (a) through (l), arranged vertically. Each spectrum shows a derivative EPR signal with a central peak and two side peaks. The x-axis for each spectrum is labeled with magnetic field values in Gauss (G). The spectra show varying degrees of peak splitting and intensity, indicating different levels of interaction between the radical and the surrounding environment.

## Generate GECC Ratings Report

30,970  
840

Figure 16

# Generate Credit Line Accrual Report by Bank Name

CONFIDENTIAL

Run Date: 1/05/00 14:53 PM

10/01/99 - 12/31/99

Credit Line Accrual Report

Bank Name	Pay Type	CF Code	Accrual	Credit Line	Fee	Days	Calculation Method	Effective Date	Termination Date
ABN-AMRO	W	826	98,767.12	600,000,000.00	6.00	90	Actual / Actual	12/30/99	12/30/99
ABN-AMRO	W	826	1,873.40	600,000,000.00	6.00	2	Actual / Actual	12/30/99	12/30/99
ABN-AMRO	A	826	37,425.62	240,000,000.00	8.00	41	Actual / Actual	11/01/99	4/07/00
ANZ BANK	A	895	1,236.39	10,000,000.00	8.00	61	Actual / Actual	11/01/99	4/07/00
ANZ BANK	A	895	4,201.37	25,000,000.00	10.00	92	Actual / Actual	12/12/97	12/12/02
ARAB BANK LTD	W	827	25,205.48	100,000,000.00	10.00	92	Actual / Actual	6/06/99	6/06/00
ARAB BANK LTD	W	825	28,205.48	100,000,000.00	10.00	92	Actual / Actual	1/31/97	1/31/02
BANCA COMMERCIALE ITALIANA	W	848	30,246.58	200,000,000.00	4.00	92	Actual / Actual	6/01/99	6/01/00
BANCA COMMERCIALE ITALIANA	W	848	14,843.84	120,000,000.00	8.00	61	Actual / Actual	11/01/99	4/07/00
BANCA COMMERCIALE ITALIANA	W	848	31,806.85	100,000,000.00	12.00	92	Actual / Actual	6/01/99	6/01/00
BANCA CRT	A	135	12,802.74	50,000,000.00	10.00	92	Actual / Actual	6/30/99	6/30/03
BANCA DI ROMA	A	824	4,010.96	30,000,000.00	8.00	61	Actual / Actual	11/01/99	4/07/00
BANCA DI ROMA	A	824	1,269.86	100,000,000.00	10.00	6	Actual / Actual	12/27/99	12/27/04
BANCA DI ROMA	A	824	23,836.62	100,000,000.00	10.00	87	Actual / Actual	12/26/99	12/26/99
BANCA NAZLE DEL LAVORO	A	804	16,123.28	100,000,000.00	6.00	92	Actual / Actual	10/4/99	12/31/99
BANCA NAZLE DEL LAVORO	A	804	16,804.11	75,000,000.00	10.00	92	Actual / Actual	10/4/99	12/31/03
BANCA POPOLARE DI MILANO	W	834	37,808.22	250,000,000.00	6.00	92	Actual / Actual	7/01/99	6/30/00
BANCA POPOLARE DI MILANO	W	834	3,864.79	34,000,000.00	10.00	30	Actual / Actual	10/31/99	10/31/99
BANCA POPOLARE DI MILANO	W	834	4,346.88	20,000,000.00	10.00	62	Actual / Actual	10/31/99	10/31/04
BANCO BILBAO VIZCAYA	W	969	45,269.86	300,000,000.00	6.00	92	Actual / Actual	3/1/99	3/1/00
BANCO BILBAO VIZCAYA	W	969	32,729.77	170,000,000.00	8.00	41	Actual / Actual	11/01/99	4/07/00
BANCO BILBAO VIZCAYA	W	969	12,802.74	60,000,000.00	10.00	92	Actual / Actual	7/01/99	7/01/04
BANCO BILBAO VIZCAYA	W	969	47,860.27	180,000,000.00	12.00	92	Actual / Actual	7/01/99	7/01/06
BANCO DI NAPOLI	A	836	11,345.47	75,000,000.00	6.00	92	Actual / Actual	6/30/99	6/30/00
BANCO DI NAPOLI	A	836	14,804.11	75,000,000.00	10.00	92	Actual / Actual	7/01/99	6/30/04
BANCO SANTANDER	W	842	102,851.83	400,000,000.00	10.00	92	Actual / Actual	1/01/99	11/22/02
BANCO SANTANDER	A	813	12,802.74	100,000,000.00	10.00	92	Actual / Actual	6/1/99	6/30/03
BANK OF AMERICA	A	895	28,846.58	200,000,000.00	8.00	61	Actual / Actual	11/01/99	11/01/00

850 854 856 860 852 864 868

866 870 874

Figure 17

# Generate Credit Line Accrual Report by Pay Type

CONFIDENTIAL  
Run Date 1/05/00 6:18:15 PM  
10/01/99 - 12/31/99

Credit Line Accrual Report By Pay Type

882 884 880 886

Bank Name	Pay Type	CF Code	Accrual	Credit Line	Fee	Days	Calculation Method	Effective Date	Termination Date
ANZ BANK	^	095	1,336.99	10,000,000.00	8.00	61	Actual / Actual	11/01/99	4/07/00
ANZ BANK	^	096	6,301.37	25,000,000.00	10.00	92	Actual / Actual	12/11/97	12/11/02
ANZ BANK	^	135	12,602.74	50,000,000.00	10.00	92	Actual / Actual	6/30/96	6/30/03
BANCA CRT	^	024	4,010.96	30,000,000.00	8.00	61	Actual / Actual	11/01/99	4/07/00
BANCA DI ROMA	^	024	1,369.06	100,000,000.00	10.00	5	Actual / Actual	12/27/99	12/31/04
BANCA DI ROMA	^	024	23,835.62	100,000,000.00	10.00	87	Actual / Actual	1/01/99	12/26/99
BANCA DI ROMA	^	024	15,123.29	100,000,000.00	10.00	92	Actual / Actual	1/04/99	12/31/99
BANCA NAZLE DEL LAVORO	^	004	16,904.11	75,000,000.00	10.00	92	Actual / Actual	1/04/99	12/31/03
BANCA NAZLE DEL LAVORO	^	004	11,342.47	75,000,000.00	10.00	92	Actual / Actual	6/30/99	4/28/00
BANCO DI NAPOLI	^	036	18,904.11	75,000,000.00	10.00	92	Actual / Actual	7/01/99	6/30/04
BANK HAPOLSK	^	013	12,602.74	50,000,000.00	10.00	92	Actual / Actual	5/11/96	9/30/02
BANK OF AMERICA	^	005	30,346.56	200,000,000.00	6.00	92	Actual / Actual	1/12/99	1/11/00
BANK OF AMERICA	^	005	66,848.32	600,000,000.00	6.00	61	Actual / Actual	11/01/99	4/07/00
BANK OF AMERICA	^	005	62,888.88	250,000,000.00	10.00	92	Actual / 360	1/22/99	1/22/04
BANK OF AMERICA IL	^	043	37,806.22	150,000,000.00	10.00	92	Actual / Actual	7/01/96	
BANK OF HAWAII	^	006	23,630.14	75,000,000.00	12.50	92	Actual / Actual	11/01/96	11/01/05
BANK OF HAWAII	^	159	12,602.74	50,000,000.00	10.00	92	Actual / Actual	12/24/95	12/23/03
BANK OF TAIWAN	^	078	7,561.64	50,000,000.00	6.00	92	Actual / Actual	6/03/96	
BANQUE FRANCAISE CMCL EX	^	141	30,346.56	200,000,000.00	6.00	92	Actual / Actual	3/27/99	3/26/00
BARCLAYS BANK PLC	^	133	22,694.93	150,000,000.00	6.00	92	Actual / Actual	7/30/99	7/28/00
CARIFLO BANK	^	133	12,602.74	50,000,000.00	10.00	92	Actual / Actual	7/30/99	7/31/04
CARIFLO BANK	^	160	12,602.74	50,000,000.00	10.00	92	Actual / Actual	3/13/99	3/13/04
CHRISTIANIA BANK	^	037	60,493.15	400,000,000.00	6.00	92	Actual / Actual	7/09/99	7/06/00
CITIBANK	^	037	63,479.45	400,000,000.00	6.00	61	Actual / Actual	11/01/99	4/07/00
CITIBANK	^	037	76,646.87	300,000,000.00	10.00	92	Actual / 360	7/09/99	7/09/04
CITIBANK	^	037	55,136.99	175,000,000.00	12.50	92	Actual / Actual	7/01/96	7/01/05
COMERICA BANK - DETROIT	^	040	7,561.64	50,000,000.00	6.00	92	Actual / Actual	6/01/99	6/30/00
COMMERCE BANK - MS CITY	^	040	2,673.97	20,000,000.00	6.00	61	Actual / Actual	11/01/99	4/07/00

Start Excel IBM MAINFR DeskLine MCR Credit Line App Synbor Microsoft By Microsoft Word Credit Line A N3 96 6:18 PM

Figure 18

# Generate Credit Line Payment Report

09630061.030100

890

892

894

896

898

1 of 3

CONFIDENTIAL

Run Date: 1/06/00 8:57:25AM

1/01/1999 - 12/31/1999

Value Date: 1/04/2000

Pay Type	Treasury Number	CF Code	Bank Name	Payment
A	015	059	FIRST AR BANK MILWAUKEE	15,276.71
A	040	122	FUTURIST BANKS, INC.	60,967.02
A	059	040	COMMERCE BANK - KS CITY	10,225.61
A	065	029	COMERICA BANK - DETROIT	55,136.99
A	099	116	KEY BANK	18,747.12
A	116	067	FNB MARYLAND (Ned 9th)	18,904.11
A	470	013	BANK HAPOLAM	12,602.74
A	572	010	WBC BANK N.Y.	25,750.68
A	969	063	FIRST HAWAIIAN BANK	15,793.42
A	977	141	SARCLAYS BANK PLC	30,246.56
A	964	006	BANK OF HAWAII	23,430.14
A	ANZ	095	ANZ BANK	7,638.26
A	BFCE	076	BANQUE FRANCAISE COMLEX	7,541.64
A	BNL	004	BANCA NAZIONALE DEL LAVORO	34,827.40
A	BOA	005	BANK OF AMERICA	160,964.75
A	BOAL	043	BANK OF AMERICA IL	37,806.22
A	CARPLD	133	CARIFLO BANK	35,267.67
A	CCOF	012	CREDIT COMMERCIAL DE FR	47,890.42
A	CHRIST	160	CHRISTIANA BANK	12,602.74
A	CTFI	037	CITIBANK	190,639.27
A	CRT	135	BANCA CRT	12,602.74
A	DANKE	146	DEM DANKE BANK	26,205.46
A	DSE	053	DSE BANK	12,602.74
A	FNEC	055	FIRST NB OF CHICAGO	63,774.74
A	GEN	065	GENERALE BANK	34,972.61
A	HYPO	021	HYPO BANK	25,205.46
A	HS-S	153	HSJ WHITFIELD BAY CO	7,996.11
A	ING	062	ING BANK, N.Y.	60,265.89
A	JPM	090	MORGAN GUARANTY TR CO	36,805.47
A	MBL	081	MARSHALL & KELLEY BANK	7,861.64
A	MBT	101	MANUFACTURERS & TRADERS	

Microsoft Word - FUNCSPED.DOC

1/06/00 8:57AM



Figure 19

# Generate Gateway ACH Report

09630061 080100

Gateway ACH Report				
1 of 3				
100%				
Create ACH File Re-Run Report				
Preview				
Gateway ACH Report				
CONFIDENTIAL				
Run Date: 1/06/2000 9:50:40AM Value Date: 1/04/2000 1 of 3				
Funds Transfer Type	Transfer Model ID	Amount	Value Date	
900 ACHP	CF000004	15,123.20	01/04/2000	
ACHP	CF000004	16,004.11	01/04/2000	
ACHP	CF000005	30,246.50	01/04/2000	
ACHP	CF000005	63,888.80	01/04/2000	
902 ACHP	CF000005	66,840.32	01/04/2000	
ACHP	CF000008	23,630.14	01/04/2000	
ACHP	CF000010	4,010.06	01/04/2000	
ACHP	CF000010	6,301.37	01/04/2000	
ACHP	CF000010	7,561.64	01/04/2000	
ACHP	CF000010	7,670.71	01/04/2000	
ACHP	CF000012	7,643.84	01/04/2000	
ACHP	CF000012	8,493.15	01/04/2000	
ACHP	CF000012	15,041.10	01/04/2000	
ACHP	CF000012	16,712.33	01/04/2000	
ACHP	CF000013	12,602.74	01/04/2000	
ACHP	CF000022	34,027.40	01/04/2000	
ACHP	CF000024	1,369.86	01/04/2000	
ACHP	CF000024	4,010.06	01/04/2000	
ACHP	CF000024	23,835.62	01/04/2000	
ACHP	CF000031	25,295.46	01/04/2000	
ACHP	CF000032	6,684.93	01/04/2000	
ACHP	CF000032	12,602.74	01/04/2000	
ACHP	CF000032	15,123.20	01/04/2000	
ACHP	CF000036	11,342.47	01/04/2000	
ACHP	CF000036	16,004.11	01/04/2000	
ACHP	CF000037	53,479.45	01/04/2000	
ACHP	CF000037	60,493.15	01/04/2000	
ACHP	CF000037	70,666.67	01/04/2000	
ACHP	CF000038	10,840.32	01/04/2000	
908				
Start End IBM MAINFRM CmpLine: Microsoft Cmp Ltr: AppCalc BY Microsoft Word: EU Gateway ACH R: N 2000 9:53 AM				

Figure 20

## Generate Gateway Wire Report

Gateway Wire Report

CONFIDENTIAL

Run Date 1/08/2000 10:08:35AM Value Date 1/04/2000 1 of 3

Funds Transfer Type	Transfer Model ID	Amount	Value Date
FWRP	CFW00800	12,602.74	1/04/2000
FWRP	CFW00801	18,004.11	1/04/2000
FWRP	CFW00802	17,380.82	1/04/2000
FWRP	CFW00802	75,816.44	1/04/2000
FWRP	CFW00803	24,055.75	1/04/2000
FWRP	CFW00803	45,369.86	1/04/2000
FWRP	CFW00804	22,664.93	1/04/2000
FWRP	CFW00804	25,205.48	1/04/2000
FWRP	CFW00805	31,506.85	1/04/2000
FWRP	CFW00805	50,410.95	1/04/2000
FWRP	CFW00806	83,013.70	1/04/2000
FWRP	CFW00807	30,240.38	1/04/2000
FWRP	CFW00807	46,794.52	1/04/2000
FWRP	CFW00807	52,931.51	1/04/2000
FWRP	CFW00807	78,767.12	1/04/2000
FWRP	CFW00808	45,369.86	1/04/2000
FWRP	CFW00809	67,072.00	1/04/2000
FWRP	CFW00809	71,070.45	1/04/2000
FWRP	CFW00810	15,753.42	1/04/2000
FWRP	CFW00810	60,493.15	1/04/2000
FWRP	CFW00812	15,753.42	1/04/2000
FWRP	CFW00812	18,004.11	1/04/2000
FWRP	CFW00813	31,606.85	1/04/2000
FWRP	CFW00813	60,493.15	1/04/2000
FWRP	CFW00814	47,280.27	1/04/2000

Taskbar: Start, Excel, THERM JANNER, DeskLine, Micro, DeskLine App, Microsoft Word, MS-DOS Prompt, Gateway Wire, NT 4.0, 10:08 AM

09630061 080100

Figure 21

## Generate Borrowing Detail Report by Due Date

**Borrowings Detail Report By Due Date**

Run Date: 1/06/2000 11:06:12 AM  
As of: 12/31/1999

CONFIDENTIAL

930 932 934 936 940 942 944 946 948

Originator	Borrower	Bank Name	Currency Type	Borrowing Local Currency	Exchange Rate	Borrowing U.S. Dollar	Due Date	Notes
GECC	GECC	BANQUE NATL DE PARIS	EUR	20,000,000	2.00	40,000,000.00	1/07/00	Third
Sub Total Currency Type EUR				20,000,000		40,000,000.00		
GECC	GECC	SAKURA BANK LTD	JPY	100,000,000	100.00	1,000,000.00	1/14/00	Fourth
Sub Total Currency Type JPY				100,000,000		1,000,000.00		
GECC	GECC	CITIBANK	USD	100,000,000	1.00	100,000,000.00	1/05/00	Second
GECC	GECC	BANK OF AMERICA	USD	50,000,000	1.00	50,000,000.00	1/05/00	First
Sub Total Currency Type USD				150,000,000		150,000,000.00		

Start | End | IBM MAINFRAM | Credit Line: Microsoft | Credit Line Application | Microsoft Word: FU | Borrowings Detail | N1 238 | 11:05 AM

Figure 22

## Generate Borrowing Detail Report by Expiration

CONFIDENTIAL

Run Date: 1/04/2000 11:07:27 AM

Borrowing Detail Report By Expiration

As of: 12/31/1999

950 952 954 956

Originator	Borrower	Bank Name	Currency Type	Borrowing Local Currency	Exchange Rate	Borrowing U.S. Dollar	Value Date	Due Date	Unused Credit Line (US\$)	CL Termination
GECC	GECC	SAHORE NATL DE PARIS	EUR	20,000,000.00	2.00	40,000,000.00	12/29/1999	1/07/2000	310,000,000.00	1
Sub Total By Currency Type			EUR	20,000,000.00		40,000,000.00			310,000,000.00	
GECC	GECC	SAKURA BANK LTD	JPY	100,000,000.00	100.00	1,000,000.00	12/30/1999	1/14/2000	74,000,000.00	1
Sub Total By Currency Type			JPY	100,000,000.00		1,000,000.00			74,000,000.00	
GECC	GECC	CITIBANK	USD	100,000,000.00	1.00	100,000,000.00	12/29/1999	1/05/2000	200,000,000.00	1
GECC	GECC	BANK OF AMERICA	USD	50,000,000.00	1.00	50,000,000.00	12/29/1999	1/08/2000	150,000,000.00	1
Sub Total By Currency Type			USD	150,000,000.00		150,000,000.00			350,000,000.00	

09670061.020100

Figure 23

## Generate Borrowing Detail Report by State/Country

**Borrowing Detail Report By State**

Re-Run Report 1 of 1 100% A Re-Run Report

Preview

CONFIDENTIAL

Run Date 10/6/2000 11:06:57 AM

Borrowing Detail Report By State/Country

As of 12/31/1999

960 962

Originator	Borrower	Bank Name	State Country	Currency Type	Borrowing Local Currency	Exchange Rate	Borrowing U.S. Dollar	Value Date	Due Date	Unused Credit Line (US \$)	CL Term
GECC											
GECC	GECC	BANQUE NATL DE PARIS	FRA	EUR	20,000,000.00	2.20	40,000,000.00	12/23/1999	1/07/2000	310,000,000.00	1
Sub Total By Currency Type: EUR					20,000,000.00		40,000,000.00			310,000,000.00	
GECC	GECC	SANUKA BANK LTD	JAP	JPY	100,000,000.00	100.00	1,000,000.00	12/00/1999	1/14/2000	74,000,000.00	1
Sub Total By Currency Type: JPY					100,000,000.00		1,000,000.00			74,000,000.00	
GECC	GECC	BANK OF AMERICA	NC	USD	60,000,000.00	1.00	60,000,000.00	12/23/1999	1/05/2000	150,000,000.00	1
GECC	GECC	CITIBANK	NY	USD	100,000,000.00	1.00	100,000,000.00	12/29/1999	1/05/2000	200,000,000.00	1
Sub Total By Currency Type: USD					160,000,000.00		160,000,000.00			350,000,000.00	

START END IBM MAINFRAM CoreLine Microsoft CoreLine AppleLink Microsoft Word 98.00 11:03 AM

09630061-000100

[illegible]

## Generate Borrowing Detail Report by Unused Credit Lines

**Borrowings Detail Report By Unused Credit Line**

Run Date: 1/06/2000 11:18:35AM

As of: 12/31/1999

**CONFIDENTIAL**

### Borrowing Detail Report By Unused Credit Lines

Originator	Borrower	Bank Name	Currency Type	Borrowing Local Currency	Exchange Rate	Borrowing U S Dollar	Value Date	Due Date	Unused CL Credit Line (US \$)	Termination
<b>GECC</b>										
GECC	GECC	BANQUE NATL DE PARIS	EUR	30,000,000.00	2.00	40,000,000.00	12/29/1999	1/07/2000	316,000,000.00	
				20,000,000.00		40,000,000.00			316,000,000.00	
Sub Total By Currency Type:				EUR						
GECC	GECC	SAKURA BANK LTD	JPY	100,000,000.00	100.00	1,000,000.00	12/30/1999	1/14/2000	74,000,000.00	
				100,000,000.00		1,000,000.00			74,000,000.00	
Sub Total By Currency Type:				JPY						
GECC	GECC	BANK OF AMERICA	USD	60,000,000.00	1.00	60,000,000.00	12/29/1999	1/06/2000	160,000,000.00	
GECC	GECC	CITIBANK	USD	100,000,000.00	1.00	100,000,000.00	12/29/1999	1/06/2000	300,000,000.00	
						160,000,000.00			350,000,000.00	
Sub Total By Currency Type:				USD						

964

968

Microsoft Word - FU... Borrowings Data

Figure 25

## Generate Borrowing Detail Report by Value Date

CONFIDENTIAL

Borrowing Detail Report By Value Date

Run Date 1/06/2000 11:13:27 AM As of 12/31/1999

Originator	Borrower	Bank Name	Currency Type	Borrowing Local Currency	Exchange Rate	Borrowing U.S. Dollar	Value Date	Due Date	Unused Credit Line (US\$)	CL Termination
GECC	GECC	BANQUE NATIONALE DE PARIS	EUR	30,000,000.00	2.20	40,000,000.00	12/29/1999	1/07/2000	310,000,000.00	1/
Sub Total By Currency Type EUR				20,000,000.00		40,000,000.00			310,000,000.00	
GECC	GECC	SANJIA BANK LTD	JPY	100,000,000.00	100.00	1,000,000.00	12/30/1999	1/14/2000	74,000,000.00	1/
Sub Total By Currency Type JPY				100,000,000.00		1,000,000.00			74,000,000.00	
GECC	GECC	BANK OF AMERICA	USD	50,000,000.00	1.00	50,000,000.00	12/29/1999	1/06/2000	150,000,000.00	1/
GECC	GECC	CITIBANK	USD	100,000,000.00	1.00	100,000,000.00	12/29/1999	1/06/2000	200,000,000.00	1/
Sub Total By Currency Type USD				150,000,000.00		150,000,000.00			350,000,000.00	

970 972

Start Excel IBM MAINFRAM Credit Line Microsoft Credit Line Application Microsoft Word 97-98 Borrowing Detail

Figure 26

# Generate Capacity Available Report by Bank

Capacity Available Report

CONFIDENTIAL

Run Date 10/6/2000 11:16:30AM Report Date 12/31/1999 1 of 6

Capacity Available Report By Bank

976 978 980 982 984 986

Credit Line ID	Originator	Bank Name	State Country	Unused CL Credit Line (US\$)	Termination Date
83	GE	ABN-AMRO	NET	250,000,000.00	12/28/2000
84	GECC	ABN-AMRO	NET	400,000,000.00	12/28/2000
437	GECC	ABN-AMRO	NET	250,000,000.00	4/1/2000
91	GECC	ANZ BANK	AUS	25,000,000.00	12/13/2002
416	GECC	ANZ BANK	AUS	10,000,000.00	4/7/2000
83	GECC	ASAB BANK LTD	JOR	100,000,000.00	6/6/2000
83	GECC	ASAB BANK LTD	JAP	100,000,000.00	1/31/2002
103	GE	BANCA COMMERCIALE ITALIANA	ITA	100,000,000.00	5/30/2000
104	GECC	BANCA COMMERCIALE ITALIANA	ITA	200,000,000.00	6/30/2000
100	GECC	BANCA COMMERCIALE ITALIANA	ITA	100,000,000.00	6/1/2006
425	GECC	BANCA COMMERCIALE ITALIANA	ITA	120,000,000.00	4/7/2000
190	GECC	BANCA CRT	ITA	60,000,000.00	6/30/2003
326	GECC	BANCA DI ROMA	ITA	100,000,000.00	12/31/2004
416	GECC	BANCA DI ROMA	ITA	30,000,000.00	4/7/2000
115	GECC	BANCA NAZIONALE DEL LAVORO	ITA	900,000,000.00	12/31/1999
116	GECC	BANCA NAZIONALE DEL LAVORO	ITA	75,000,000.00	12/31/2003
291	GECC	BANCA POPOLARE DI MILANO	ITA	250,000,000.00	6/30/2000
263	GECC	BANCA POPOLARE DI MILANO	ITA	25,000,000.00	10/31/2004
99	GECC	BANCO BILBAO VIZCAYA	SPA	300,000,000.00	3/12/2000
101	GECC	BANCO BILBAO VIZCAYA	SPA	90,000,000.00	7/1/2004
102	GECC	BANCO BILBAO VIZCAYA	SPA	150,000,000.00	7/1/2006
422	GECC	BANCO BILBAO VIZCAYA	SPA	170,000,000.00	4/7/2000
286	GECC	BANCO DI NAPOLI	ITA	75,000,000.00	4/28/2000
289	GECC	BANCO DI NAPOLI	ITA	75,000,000.00	6/30/2004
84	GECC	BANCO SANTANDER	SPA	400,000,000.00	11/22/2002
36	GECC	BANK MAFALAM	ISR	80,000,000.00	5/30/2002
125	GE	BANK OF AMERICA	MC	300,000,000.00	1/1/2000
139	GECC	BANK OF AMERICA	MC	100,000,000.00	6/1/2000



Figure 27

## Generate Borrowings Repayment Report

**Borrowings Repayments Report**

Run Date: 10/6/2000 11:52:11 AM

Re-Run Report

CONFIDENTIAL

Borrowings Re-Payment Report

Re-Payment date: 10/5/2000

Issue Date: 10/5/2000

Page 1 of 1

Payment Type	Treasury Number	CF Code	Bank Name	Currency Type	Principal Payment Local Currency	Interest Payment Local Currency	Total Payment
ACH							
ACH	CIT1	037	CITIBANK	USD	100,000,000.00	119,444.44	100,119,444.4
Sub Total By Currency Type: USD					100,000,000.00	119,444.44	100,119,444.4

996

998

1000

1002

990

994

00T020T900E960

Start Excel DIRH MAINFRAM... CordLanz Microsoft... Desk Line Application... Microsoft Word... Borrowings Rep... N152AM

Figure 28

## Generate Borrowings Interest Paid Report by Currency

CONFIDENTIAL

Borrowings Interest Paid Report By Currency

Run Date: 1/05/2000 12:00:15 PM

From: 1/01/2000 To: 1/01/2000

1068

1010

1012

Originator	Borrower	CL ID	Type	Bank Name	Currency Type	Repayment Local Currency	Outstanding Local Currency	Benchmark	Spread	Interest Paid Basis Local Currency Type
GECC	GECC	119	1R	BANQUE PARISIENNE	EUR	20,000,000.00	0.00	3.00	25	12,600.00 0
Sub Total By Credit Line ID					119	20,000,000.00				12,600.00
GECC	GECC	330	1R	SAKURA BANK LTD	JPY	100,000,000.00	0.00	3.00	25	142,874.60 A
Sub Total By Credit Line ID					330	100,000,000.00				142,874.60
GECC	GECC	171	5R	CITIBANK	USD	100,000,000.00	0.00	5.00	35	119,444.44 0
Sub Total By Credit Line ID					171	100,000,000.00				119,444.44
GECC	GECC	126	1R	BANK OF AMERICA	USD	60,000,000.00	0.00	5.00	25	60,305.33 0
Sub Total By Credit Line ID					126	60,000,000.00				60,305.33

Start | End | ESTIMB | MAINFRM | Microsoft Word 97 | DeskLink | Microsoft | DeskLink Applications | N3500 12:00 PM

Catalytic Activity		Thermal Stability		pH Stability		Salt Tolerance		Metal Ion Dependence	
Enzyme	Activity (U/mg)	Half-life (h)	Optimal pH	Optimal Temp (°C)	Optimal pH	Optimal Temp (°C)	Optimal pH	Optimal Temp (°C)	Optimal pH
Enzyme A	120	24	7.0	50	7.0	50	7.0	50	7.0
Enzyme B	150	36	8.0	55	8.0	55	8.0	55	8.0
Enzyme C	180	48	9.0	60	9.0	60	9.0	60	9.0
Enzyme D	210	60	10.0	65	10.0	65	10.0	65	10.0
Enzyme E	240	72	11.0	70	11.0	70	11.0	70	11.0
Enzyme F	270	84	12.0	75	12.0	75	12.0	75	12.0
Enzyme G	300	96	13.0	80	13.0	80	13.0	80	13.0
Enzyme H	330	108	14.0	85	14.0	85	14.0	85	14.0
Enzyme I	360	120	15.0	90	15.0	90	15.0	90	15.0
Enzyme J	390	132	16.0	95	16.0	95	16.0	95	16.0
Enzyme K	420	144	17.0	100	17.0	100	17.0	100	17.0
Enzyme L	450	156	18.0	105	18.0	105	18.0	105	18.0
Enzyme M	480	168	19.0	110	19.0	110	19.0	110	19.0
Enzyme N	510	180	20.0	115	20.0	115	20.0	115	20.0
Enzyme O	540	192	21.0	120	21.0	120	21.0	120	21.0
Enzyme P	570	204	22.0	125	22.0	125	22.0	125	22.0
Enzyme Q	600	216	23.0	130	23.0	130	23.0	130	23.0
Enzyme R	630	228	24.0	135	24.0	135	24.0	135	24.0
Enzyme S	660	240	25.0	140	25.0	140	25.0	140	25.0
Enzyme T	690	252	26.0	145	26.0	145	26.0	145	26.0
Enzyme U	720	264	27.0	150	27.0	150	27.0	150	27.0
Enzyme V	750	276	28.0	155	28.0	155	28.0	155	28.0
Enzyme W	780	288	29.0	160	29.0	160	29.0	160	29.0
Enzyme X	810	300	30.0	165	30.0	165	30.0	165	30.0
Enzyme Y	840	312	31.0	170	31.0	170	31.0	170	31.0
Enzyme Z	870	324	32.0	175	32.0	175	32.0	175	32.0

## Generate Borrowings Domestic ACH Report

Borrowings ACH/Wire Report

1 of 1

100%

Re-Run Report

CONFIDENTIAL

Borrowings Domestic ACH Report

Run Date 1/06/2000 12:17:14 PM

Repay Date 1/06/2000

Value Date 1/06/2000

1 of 1

Funds Transfer Type	Transfer Method ID	Principal Payment Local Currency	Interest Payment Local Currency	Total Payment	Repay Date	Value Date
ACHP	CF000005	60,000,000.00	80,208.33	60,080,208.33	1/6/2000	1/06/2000
Total		60,000,000.00	80,208.33	60,080,208.33		

1014

1016

1020

1018

Figure 30

# Generate Borrowings Domestic Wire Report

CONFIDENTIAL

Borrowings Domestic Wire Report

Run Date: 1/06/2000 12:19:35 PM

Repay Date: 1/07/2000

Value Date: 1/07/2000

Funds Transfer Type	Transfer Model ID	Principal Payment Local Currency	Interest Payment Local Currency	Total Payment	Repay Date	Value Date
FWMP	CFW000007	20,000,000.00	12,500.00	20,012,500.00	1/7/2000	1/07/2000
Total		20,000,000.00	12,500.00	20,012,500.00		

Handwritten annotations: 1022, 1024, 1026, 1028, 1032, 1034, 1036

Figure 31

## Generate Borrowings Interest Accruals Report in Local Currency

CONFIDENTIAL

Run Date: 1/06/2000 12:33:44PM

Borrowing Interest Accruals Report in Local Currency

Accrual Period: 12/01/1999 to 12/31/1999

Originator	Borrower	BankName	Currency Type	Borrowing Local Currency	Interest Accrual	Spread	Benchmark	Days	Base Type	Value Date
GECC	GECC	BANQUE NATL DE PARIS	EUR	20,000,000	3,750.00	25.00	2.00	3	Actual/360	12/29/1999
Sub Total By Currency Type EUR				20,000,000	3,750.00					
GECC	GECC	SAKURA BANK LTD	JPY	100,000,000	17,806.22	25.00	3.00	2	Actual/Actual	12/30/1999
Sub Total By Currency Type JPY				100,000,000	17,806.22					
GECC	GECC	BANK OF AMERICA	USD	50,000,000	21,876.00	25.00	5.00	3	Actual/360	12/29/1999
GECC	GECC	CITIBANK	USD	100,000,000	44,791.67	37.50	5.00	3	Actual/360	12/29/1999
Sub Total By Currency Type USD				150,000,000	66,667.67					

1044 1046 1050 1052 1056 1060 1070

1040 1042 1066 1062

## Generate Composite Rate Report

CONFIDENTIAL

Run Date 1/06/2000 12:25:26 PM

Composite Rate Report

From 12/01/1999 To 12/31/1999

Borrower	Borrowing ID	CL ID	Currency Type	Start Date	Mature Date	Loan Period	Ending Balance	Days Outstanding	Average Balance	Interest Expense	Average Rate
GECC	3	110	EUR	12/29/1999	1/2/2000	10	0.00	3	1,035,493.57	3,760.00	2
Sub Total By Currency Type: EUR							0.00		1,035,493.57	3,760.00	2
GECC	4	330	JPY	12/30/1999	1/14/2000	15	0.00	2	6,451,612.00	17,606.22	3
Sub Total By Currency Type: JPY							0.00		6,451,612.00	17,606.22	3
GECC	1	134	USD	12/29/1999	1/6/2000	11	0.00	3	4,836,708.88	21,875.00	6
GECC	2	171	USD	12/29/1999	1/5/2000	6	0.00	3	9,677,119.35	44,791.67	6
Sub Total By Currency Type: USD							0.00		14,513,828.23	66,666.67	6

1080 1082 1084 1086 1090 1092 1094 1096 1098 1100 1102 1104



**DECLARATION AND POWER OF ATTORNEY**

Attorney's Docket No.

17837-00003

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application and any patent issued thereon.

**SOLE OR FIRST INVENTOR:**Full Name: Glenn Goggins

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Residence: \_\_\_\_\_

Citizenship: \_\_\_\_\_

Post Office Address: \_\_\_\_\_

**SECOND JOINT INVENTOR, IF ANY:**Full Name: William Marcial

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Residence: \_\_\_\_\_

Citizenship: \_\_\_\_\_

Post Office Address: \_\_\_\_\_

**THIRD JOINT INVENTOR, IF ANY:**

Full Name: \_\_\_\_\_

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Residence: \_\_\_\_\_

Citizenship: \_\_\_\_\_

Post Office Address: \_\_\_\_\_

**FOURTH JOINT INVENTOR, IF ANY:**

Full Name: \_\_\_\_\_

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Residence: \_\_\_\_\_

Citizenship: \_\_\_\_\_

Post Office Address: \_\_\_\_\_

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